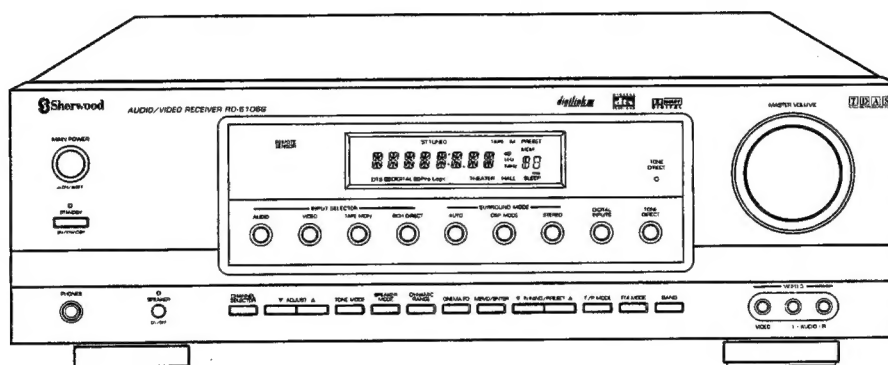


# SERVICE MANUAL

## RD-6106/G/RDS

DOLBY DIGITAL AC-3/DTS READY RECEIVER



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## SAFETY PRECAUTIONS

### WARNING

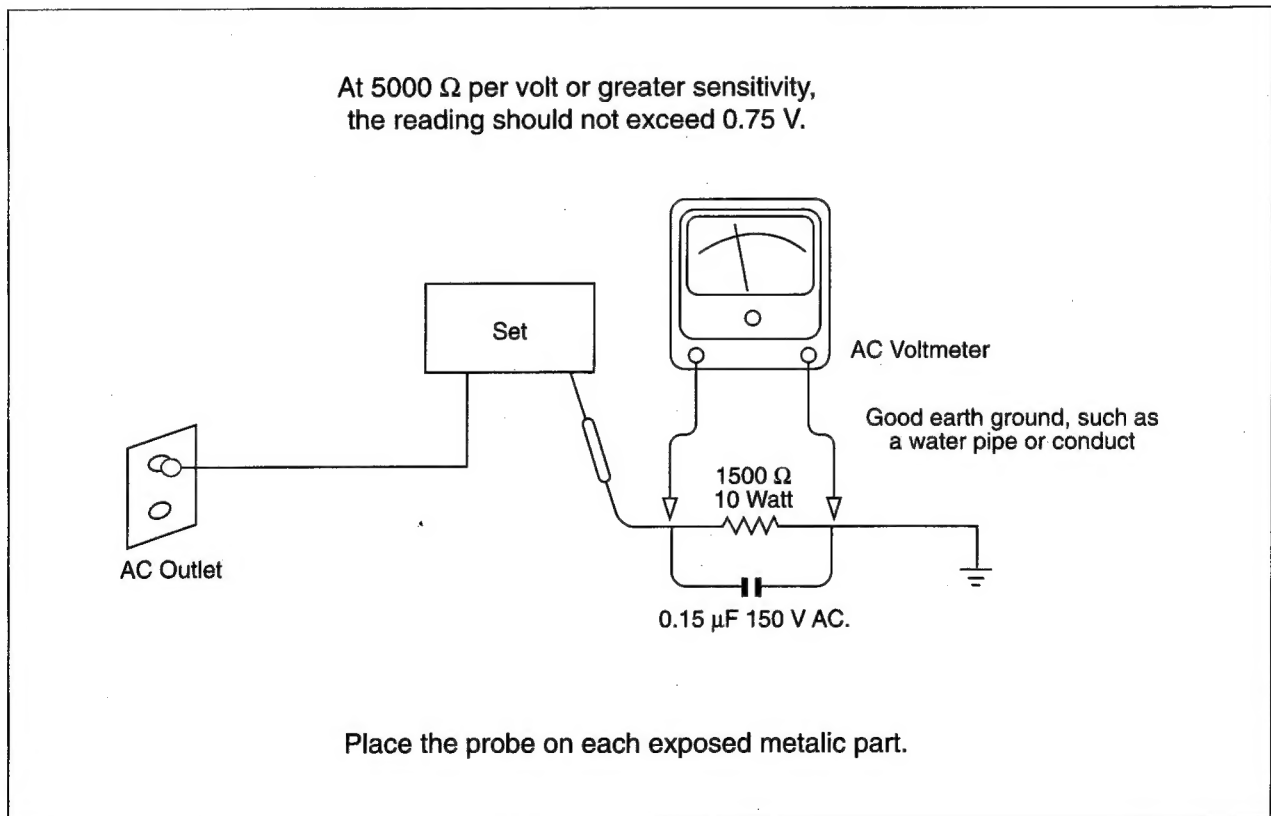
Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by  $\triangle$  in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the

exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet(USA Version) or 230 V AC outlet(EU Version). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of  $5000\ \Omega$  per volt or greater. Then connect a  $1500\ \Omega$  10 watt resistor, paralleled by a  $0.15\ \mu\text{F}$  150 V AC capacitor, between a known good earth ground(such as a water pipe, or conduit) and the exposed metallic is parts, one at a time. Measure the AC voltage across the combination of a  $1500\ \Omega$  resistor and a  $0.15\ \mu\text{F}$  capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



# SPECIFICATIONS

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted :

Output resistive load = (8) ohms / Both channel driven

Tone(Bass, Treble), Balance, EQ control : Center Position , Other SW's : OFF

Nominal input level : 5mV for MM, 0.5mV for MC, 500mV for general purpose inputs

Power figures should be kept minimum 10min. between 15 and 35 °C

Terminator : 100ohm for MC, 1kohm for MM and general purpose inputs

Filter : IHF-A filter

R/O = Rated Output

Power supply : 120V/60Hz (A), 220V/50Hz (C), 230V/50Hz (D)

## ● FRONT AMP SECTION

\*SUB-WOOFER SPKR : NO \*SPKR LEVEL : ALL 0dB

\*SOURCE DIRECT ON(TONE DIRECT MODE)

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	INPUT SENSITIVITY	CD	1kHz		mV	200±40	200±30
		MM	1kHz		mV		
		MC	1kHz		mV		
		MIC	1kHz		mV		
2	CHANNEL BALANCE	CD	1kHz	R/O TO -40dB	dB	±3	±2
			1kHz				
3	DAMPING FACTOR	CD	1kHz				
4	RESIDUAL NOISE	CD	1kHz	VOL min.	mV	≤1.2	≤1.0
			1kHz	VOL max.	mV		
5	TOTAL HARMONIC DISTORTION	CD (500mV)	(40)Hz	R/O	%	≤0.2	≤0.09
			1kHz		%	≤0.2	≤0.09
			(20)KHz		%	≤0.3	≤0.2
6	CONTINUOUS AVERAGE POWER at (0.2)% THD	CD	(40)Hz	(8)ohms	W	50	52
			1kHz		W	50	52
			(20)KHz		W	50	52
7	IMD (SMPTE)	CD	60Hz=4	R/O	%	≤0.3	≤0.2
			7kHz=1		%	≤0.3	≤0.2
8	S/N RATIO, IHF-A FILTER	CD (500mV)	1kHz	R/O	dB	≥85	≥90
			1kHz		dB		
9	CHANNEL SEPARATION	CD (500mV)	100Hz	R/O-3dB	dB	≥45	≥55
			1kHz		dB	≥45	≥55
			10kHz		dB	≥40	≥45
10	FUNCTION CROSSTALK	CD→TAPE IN	1/10 kHz	R/O-3dB	dB	≥60/50	≥65/55
11	FREQUENCY RESPONSE (-3dB)	CD (500mV)		1W	Hz~kHz	20~50	20~55
12	TONE CONTROL, ±(8)dB	CD	100Hz	1W	dB	±10±2	±10±1
			10kHz		dB	±10±2	±10±1
13	SUBWOOFER OUT (1ch input)	CD (200mV)	30Hz	VOL max.	V	1±0.4	1±0.3
14	PHONO EQUALIZATION	PHONO	100Hz	TAPE OUT	dB		
			10KHz		dB		
15	HEADPHONE OUTPUT H/P = 64ohms	CD (500mV)	1kHz	R/O	V	2.4±0.4	2.4±0.2
			1kHz		V		
16	DIN POWER at 1% THD	CD	1kHz	R/O	W		

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
17	DYNAMIC POWER OUTPUT 20 cycle ON,480 cycle OFF	CD	1kHz	( )ohms	W		
18	POWER BANDWIDTH -3dB	CD		R/O	Hz~kHz		
19	SLEW RATE	CD	1kHz	R/O	V/usec		
20	SLEW-FACTOR	CD (500mV)					
21	PRE OUTPUT LEVEL	6-CH (200mV)	1kHz	VOL max.	V		
		SUB-CH (200mV)	30Hz	VOL max.	V	1.7 ±0.4	1.7 ±0.3
22	CINEMA EQ at 1W	CD	1kHz	VOL max.	dB		
		CD (500mV)	10kHz	VOL max.	dB	-5.5±1.5	-5.5±1
23	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

### ● REAR AMP SECTION

Measurements conditions : Input level 350mV

Rear level max, Delay Time 20ms, Master volume adj

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT L/R	NOMINAL L/R
1	POWER OUTPUT 0.7% THD	CD	1kHz	(8)ohms	W	≥ 50	≥ 55
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤ 1	≤ 0.7
3	S/N RATIO DOLBY IHF-A FILTER, THEATER HALL1 HALL2	CD		R/O	dB	≥ 55	≥ 63
					dB		
					dB		
					dB		
4	FRE RES. LARGE SMALL	CD	1kHz	1W	Hz~kHz	25~6	20~7K
					Hz~kHz	120~6	100~7K
5	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

### ● CENTER AMP SECTION

Measurements conditions : Input level 350mV

SPKR : WIDE, Center level max, Master volume adj

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	POWER OUTPUT at 0.3% THD	CD	1kHz	(8)ohms	W	≥ 50	≥ 55
2	TOTAL HARMONIC DISTORTION	CD	1kHz	1W	%	≤ 0.3	≤ 0.2
3	S/N RATIO, IHF-A FILTER	CD		R/O	dB	≥ 55	≥ 63
4	FRE. RESPONSE LARGE DOLBY MODE SMALL	CD		1W	Hz~kHz	35~18K	30~20K
					Hz~kHz	135~18K	120~20K
5	CINEMA EQ	CD (500mV)	1kHz	VOL max.	dB		
			10kHz	VOL max.	dB	-5.5±1.5	-5.5±1
6	DC OFFSET VOLTAGE	CD		VOL min.	mV	70	50

### ● VIDEO SECTION

NO	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	VCR1(1Vp-p)	1MHz	75 ohm	Vp-p	-1±0.2	-1±0.1
2	FREQUENCY RESPONSE	"		5Hz ~ 6MHz	dB	±2.0	±3.1
3	S/N RATIO	"	1MHz		dB	40	45
4	CROSSTALK	"	1MHz		dB	40	45

## TUNER SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition FM : Radio frequency = 98.1MHz, Audio frequency = 1kHz

Reference level = 1mV on ( 75ohms , 300ohms )

Deviation : MONO =  $\pm 75\text{kHz}$ , Stereo =  $\pm 67.5\text{kHz} \pm 7.5\text{kHz}$  (America)

MONO =  $\pm 40\text{kHz}$ , Stereo =  $\pm 40\text{kHz} \pm 7.5\text{kHz}$  (Europe)

Test Point : TP 1 = 90.1MHz, TP 2 = 98.1MHz, TP 3 = 106.1MH      Filter = B.P.F at STEREO

Power supply : 120V/60Hz (A), 220V/50Hz (C), 230V/50Hz (D/RDS)

### ● FM SECTION

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
1	TUNING RANGE	LOW ~ HIGH	MHz	87.5~108	
	STEP (A)	AUTO/Man.	kHz	100/100	
	STEP (C/D/RDS)	AUTO/Man.	kHz	100/50	
2	USABLE SENSITIVITY	TP 1	dBf	$\leq 23.2$	$\leq 20.2$
	S/N = 30dB (A)	TP 2	dBf	$\leq 23.2$	$\leq 20.2$
	S/N = 26dB (C/D/RDS)	TP 3	dBf	$\leq 23.2$	$\leq 20.2$
3	FULL LIMITING SENSE (A) (C/D/RDS)	OUTPUT = -3dB	dBf	$\leq 15.2$	$\leq 12.2$
		OUTPUT = -3dB		$\leq 23.2$	$\leq 20.2$
4	AUTO STOP LEVEL		dBf	$31.2 \pm 5$	$31.2 \pm 3$
5	AUTO SCAN ERROR		kHz	$\pm 7$	$\pm 9$
6	S/N RATIO	MONO	dB	$\geq 65$	$\geq 70$
	IHF-A FILTER	STEREO	dB	$\geq 60$	$\geq 65$
7	TOTAL HARMONIC DISTORTION	MONO	%	$\leq 0.5$	$\leq 0.3$
		STEREO	%	$\leq 0.8$	$\leq 0.5$
8	50dB QUIETING SENS. (A)	MONO	dBf	$\leq 27.2$	$\leq 25.2$
	46dB QUIETING SENS. (C/D/RDS)	STEREO	dBf	$\leq 48.3$	$\leq 45.3$
9	CHANNEL SEPARATION	100Hz	dB	$\geq 30$	$\geq 35$
		1kHz	dB	$\geq 30$	$\geq 35$
		10kHz	dB	$\geq 25$	$\geq 30$
10	FREQUENCY RESPONSE AT $\pm 1.3\text{dB}$		Hz	30~11K	25~12K
11	SPURIOUS RESPONSE		dB	$\geq 65$	$\geq 70$
12	IF REJECTION	TP 1	dB	$\geq 70$	$\geq 80$
13	IMAGE REJECTION (A) (C/D/RDS)	TP 3	dB	$\geq 35$	$\geq 40$
		TP 3	dB	$\geq 35$	$\geq 70$
14	AM REJECTION RATIO (A) (C/D/RDS)		dB	$\geq 47$	$\geq 52$
			dB	$\geq 60$	$\geq 52$
15	RF INTERMODULATION		dB		
16	CAPTURE RATIO		dB		

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
17	ALTERNATIVE CH SELECTIVITY      ± (400)kHz		dB		
19	OUTPUT LEVEL MONO	TAPE REC OUT	mV	500±150	500±100
20	RDS SENSITIVITY (D/RDS)		dBf	≤40.2	≤38.2

### ● AM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition AM - MW : Radio frequency = 1000/999kHz, Audio frequency = 400Hz

LW : Radio frequency = 207kHz, Audio frequency = 400Hz

Reference level = 5mV/m, 10mV/m on 50ohms

Modulation = 30%

Test Point : MW TP1 = (600)kHz TP2 = (1000)kHz TP3 = (1400)kHz  $\rightarrow$  (A)

MW TP1 = (594)kHz TP2 = (999)kHz TP3 = (1404)kHz  $\rightarrow$  (C/D/RDS)

LW TP1 = 162kHz, TP2 = 207kHz, TP3 = 252kHz

NO	DESCRIPTION		UNIT	LIMIT L/R	NOMINAL L/R
1	TUNING COVER RANGE (A) (C/D/RDS)	LOW ~ HIGH MW	kHz	520~1710	
		LOW ~ HIGH MW	kHz	522~1611	
	STEP (A) (C/D/RDS)	AUTO/Man.	kHz	10/10	
		AUTO/Man.	kHz	9	
2	USABLE SENSITIVITY S/N = 20dB	MW TP 1	uV/m	≤ 800	≤ 500
		TP 2	uV/m	≤ 800	≤ 500
		TP 3	uV/m	≤ 800	≤ 500
3	S/N RATIO	MW	dB	≥ 35	≥ 40
		LW	dB		
4	TOTAL HARMONIC DISTORTION		%	≤ 2	≤ 1.5
5	OVER LOAD DISTORTION 5mV 80% MOD		%	≤ 10	≤ 5
6	FREQUENCY RESPONSE at -6dB	MW	Hz	100~2K	80~2.2K
		LW	Hz		
7	SELECTIVITY 10kHz/9kHz	MW	dB	≥ 20	≥ 25
		LW	dB		
8	AGC FIGURE OF MERIT Input=100mV, -10dB		dB	≥ 50	≥ 55
9	IMAGE REJECTION	MW = TP 3	dB	≥ 25	≥ 30
		LW = TP 3	dB		
10	WHISTLE MODULATION INPUT = 1mV/m	2IF	%	≤ 15	≤ 10
		3IF	%		
11	AUTO STOP LEVEL	MW	uV/m	800(±10dB)	800(±8dB)
		LW	uV/m		
12	TUNED LEVEL	MW	uV/m	800(±10dB)	800(±8dB)
		LW	uV/m		
13	OUTPUT LEVEL (A) (C/D/RDS)	TAPE REC OUT	mV	160±60	160±50
		TAPE REC OUT	mV	150±60	150±50

## AC-3 SECTION

Measurements conditions, unless otherwise noted.

Input Function : LD (other digital player)

Digital Input Mode : LD COAXIAL

Main Vol. Position : 50 position.

Trim Vol. Position : All "0" dB

Test Point : Spk-out & Pre-out

Test Disc : DOLBY TEST DISC VERSION 1.0

Center, Rear Delay : 0ms

NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
1	OUTPUT LEVEL				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	7.0±1.0	NOMINAL	7.0±0.5	L	C	R	LS	RS	SW	UNIT	V			
	OUTPUT LEVEL				30kHz 0dBFS LFE (Pre Out)						18	L	L	L	Y
	LIMIT	1.0±0.4	NOMINAL	1.0±0.3	L	C	R	LS	RS	SW	UNIT	V			
2	OUTPUT LEVEL MAIN VOL. : MIN.				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
	OUTPUT LEVEL MAIN VOL. : MIN.				30kHz 0dBFS LFE (Pre Out)						18	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
3	S/N	SPK-OUT : 1W "A" WEIGHTED			1kHz -20dBFS L/C/R/LS/RS						6	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
	S/N	PRE-OUT : 1V UNWEIGHTED			30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
4	T.H.D	SPK-OUT : 1W			1kHz -20dBFS L/C/R/LS/RS						6	L	L	L	Y
	LIMIT	≤0.5	NOMINAL	≤0.3	L	C	R	LS	RS	SW	UNIT	%			
	T.H.D	PRE-OUT : 1V			30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	≤0.3	NOMINAL	≤0.25	L	C	R	LS	RS	SW	UNIT	%			
5	CHANNEL SEPARATION				REF : 1kHz 0dBFS L						8(REF)	L	L	L	Y
	LIMIT/NOMINAL		OTHER CHANNEL		L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS C						10(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS R						12(REF)	L	L	L	Y
	LIMIT/NOMINAL		L ↔ R		L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS LS						14(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 1kHz 0dBFS RS						16(REF)	L	L	L	Y
	LIMIT/NOMINAL		ALL ↔ S/W		L	C	R	LS	RS	SW	UNIT	dB			
	CHANNEL SEPARATION				REF : 30kHz 0dBFS LFE						18(REF)	L	L	L	Y
	LIMIT	≥55	NOMINAL	≥60	L	C	R	LS	RS	SW	UNIT	dB			



NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
6	DYNAMIC RANGE				1kHz 0dBFS L/C/R/LS/RS						38	L	L	L	Y
	LIMIT	-11±2	NOMINAL	-11±1	L	C	R	LS	RS	SW	UNIT	dB			
	DYNAMIC RANGE				30kHz 0dBFS LFE						18	L	L	L	Y
	LIMIT	-0±2	NOMINAL	-0±1	L	C	R	LS	RS	SW	UNIT	dB			
7	DIALOG NORMALIZATION				1kHz -20dBFS L/C/R/LS/RS						43	L	L	L	Y
	LIMIT	-10±1	NOMINAL	-10±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DIALOG NORMALIZATION				30kHz 20dBFS LFE						43	L	L	L	Y
	LIMIT	-10±1	NOMINAL	-10±0.5	L	C	R	LS	RS	SW	UNIT	dB			
8	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS L						8(REF)	S	S	S	Y
					30Hz 0dBFS LFE						18	S	S	S	Y
	LIMIT	10±1	NOMINAL	10±2	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS LFE						18(REF)	S	S	S	Y
					30Hz 0dBFS L/C/R/LS/RS/LFE						22	S	S	S	Y
	LIMIT	6.5±2	NOMINAL	6.5±1	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION1 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	S	S	S	Y
					30Hz 0dBFS L/C/R/LS/RS						20	S	S	S	Y
	LIMIT	-19.5±3	NOMINAL	-19.5±2	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION2 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	L	S	S	N
					30Hz 0dBFS LFE						18	L	S	S	N
9	LIMIT	5.5±2	NOMINAL	5.5±1	L	C	R	LS	RS	SW	UNIT	dB			
	OUTPUT CONFIGURATION2 TEST				REF : 1kHz 0dBFS L/C/R/LS/RS						38(REF)	L	S	S	N
					30Hz 0dBFS L/C/R/LS/RS/LFE						22	L	S	S	N
	LIMIT	10±2	NOMINAL	10±1	L	C	R	LS	RS	SW	UNIT	dB			
10	DOWNMIXING TEST				REF : 1kHz 0dBFS C → CENTER : NO						10(REF)	L	S	S	N
	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz 0dBFS LS → LS : NO						14(REF)	L	S	S	N
	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz 0dBFS RS → RS : NO						16(REF)	L	S	S	N
	LIMIT	-3.0±1	NOMINAL	-3.0±0.5	L	C	R	LS	RS	SW	UNIT	dB			
	DOWNMIXING TEST				REF : 1kHz -20dBFS L/C/R/LS/RS → ST : ON						6(REF)	L	S	S	N
	LIMIT	7.5±2	NOMINAL	7.5±1	L	C	R	LS	RS	SW	UNIT	dB			
	USING VER2.0 (DOWNMIXING TEST)				REF : 30kHz -3dBFS L/C/R/LS/RS/LFE → ST : ON						47(REF)	L	S	S	N
	LIMIT	0±2	NOMINAL	0±1	L	C	R	LS	RS	SW	UNIT	dB			
	USING VER2.0 (DOWNMIXING TEST)				REF : 30kHz -3dBFS L/C/R/LS/RS/LFE, ST ON → SW : NO						47(REF)	L	S	S	N
	LIMIT	0±2	NOMINAL	0±1	L	C	R	LS	RS	SW	UNIT	dB			



## DTS SECTION

Measurements conditions, unless otherwise noted : Input Function : DVD

Digital Input Mode : OPTICAL or COAXIAL

Speker Mode : FL-CL-RL, SW-YES

Trim Vol Position : All "0" dB

Test Point : Spk-out & Pre-out

Test disc : DTS Set-Up Disc VER.2

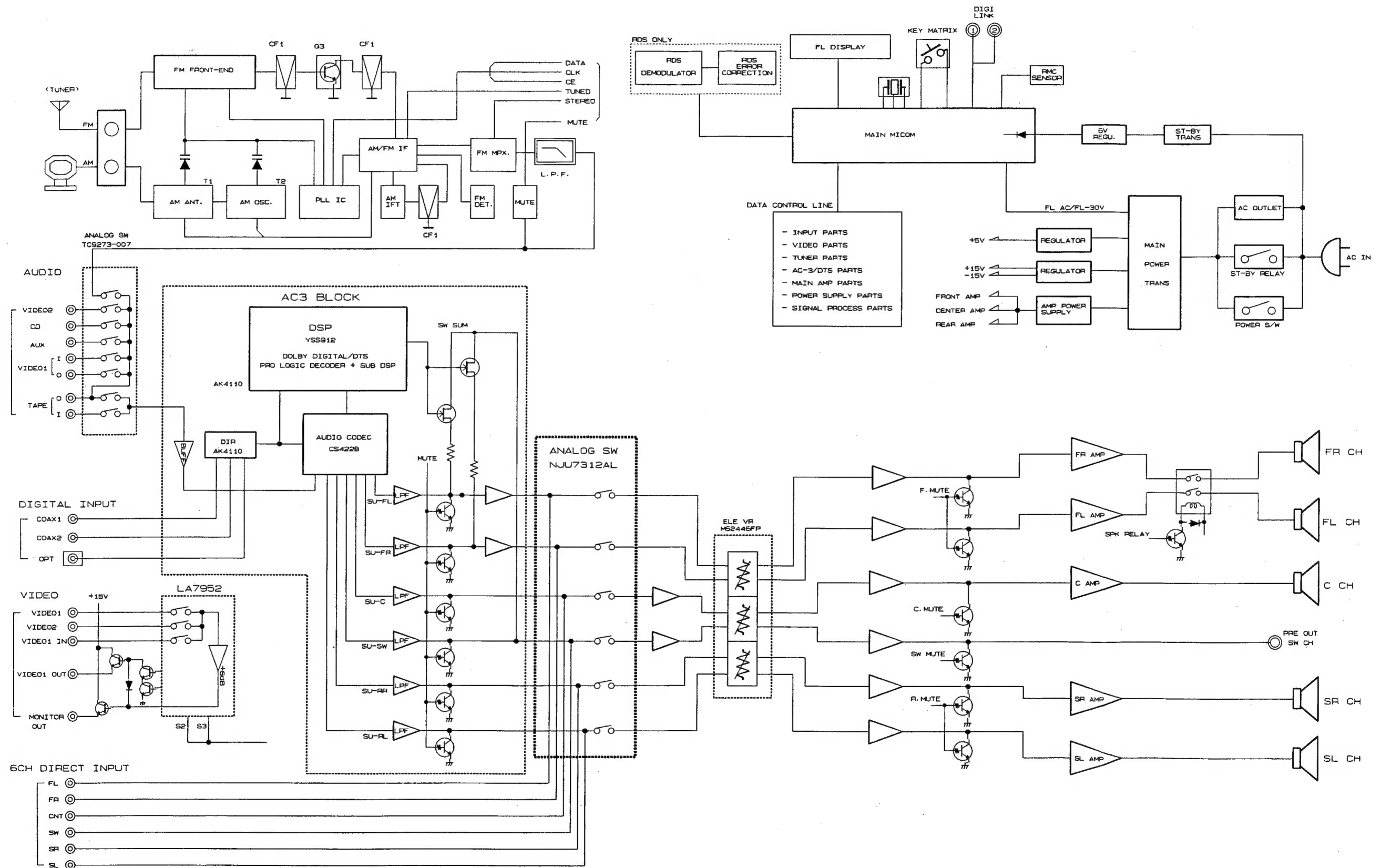
Master vol. Position : 50

- ※ CHAPT    10 : LEFT CH. 1kHz SINE WAVE 0dBFS  
               11 : RIGHT CH. 1kHz SINE WAVE 0dBFS  
               12 : LEFT SURROUND CH. 1kHz SINE WAVE 0dBFS  
               13 : RIGHT SURROUND CH. 1kHz SINE WAVE 0dBFS  
               14 : CENTER CH. 1kHz SINE WAVE 0dBFS  
               15 : LFE CH. 30Hz SINE WAVE 0dBFS

NO	DESCRIPTION				CONTENTS-TEST TONE						CHAP	F	C	R	SW
1	OUTPUT LEVEL				1kHz 0dBFS L/C/R/LS/RS						10~14	L	L	L	Y
	LIMIT	7.0±1.0	NOMINAL	7.0±0.5	L	C	R	LS	RS	SW	UNIT	v			
	OUTPUT LEVEL				30kHz 0dBFS LFE (Pre Out)						15	L	L	L	Y
	LIMIT	1.0±0.4	NOMINAL	1.0±0.3	L	C	R	LS	RS	SW	UNIT	V			
2	OUTPUT LEVEL MAIN VOL. : MIN.				1kHz 0dBFS L/C/R/LS/RS						10~14	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
	OUTPUT LEVEL MAIN VOL. : MIN.				30kHz 0dBFS LFE (Pre Out)						15	L	L	L	Y
	LIMIT	≤1.2	NOMINAL	≤1.0	L	C	R	LS	RS	SW	UNIT	mV			
3	S/N	SP-OUT : 1W "A" WEIGHTED			1kHz -20dBFS L/C/R/LS/RS						9	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			
	S/N	PRE-OUT : 1V UNWEIGHTED			30kHz 0dBFS LFE						15	L	L	L	Y
	LIMIT	≥60	NOMINAL	≥65	L	C	R	LS	RS	SW	UNIT	dB			

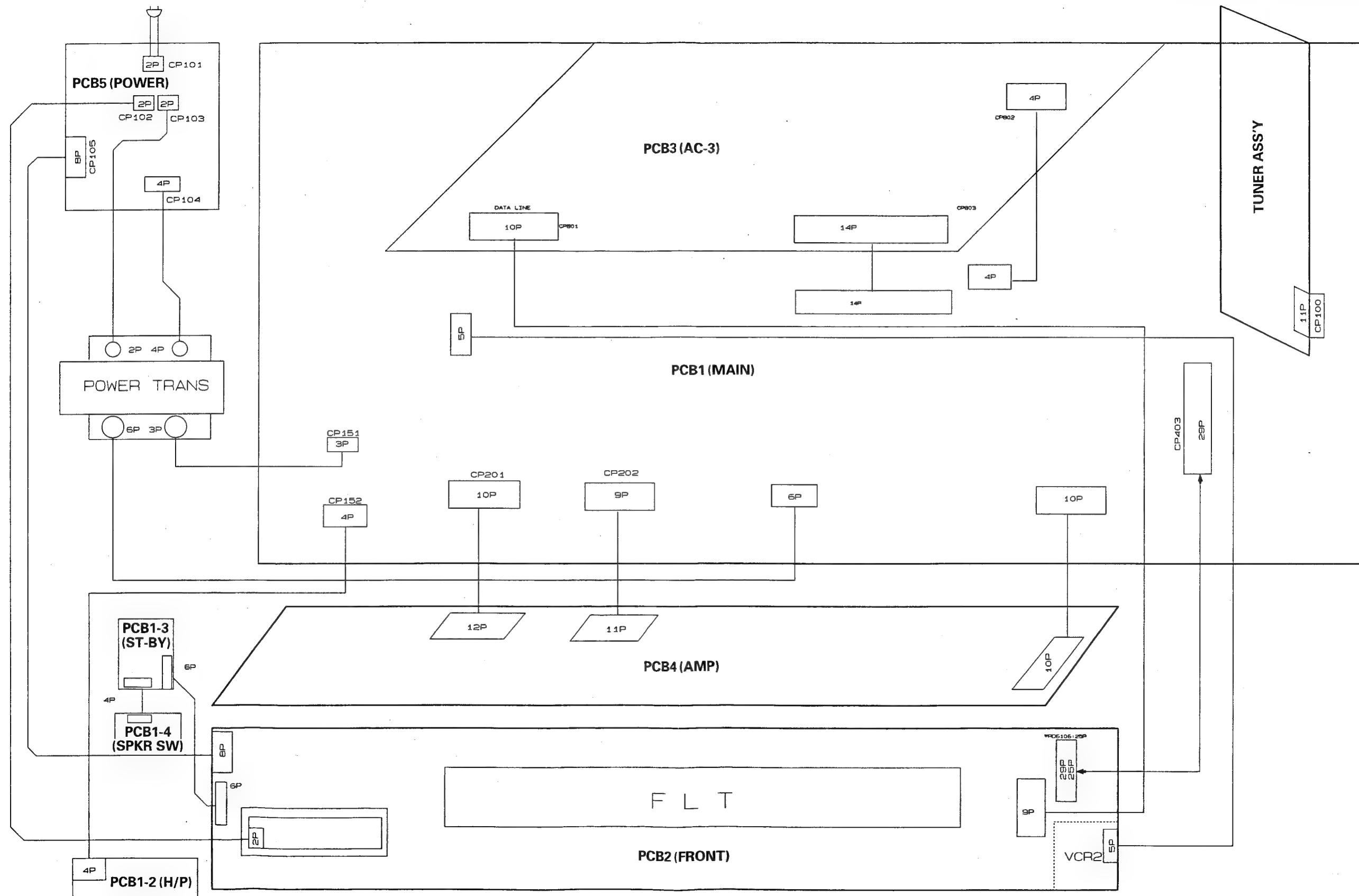
## BLOCK DIAGRAM

**Model No. : RD-6106/G/RDS**



# WIRING DIAGRAM

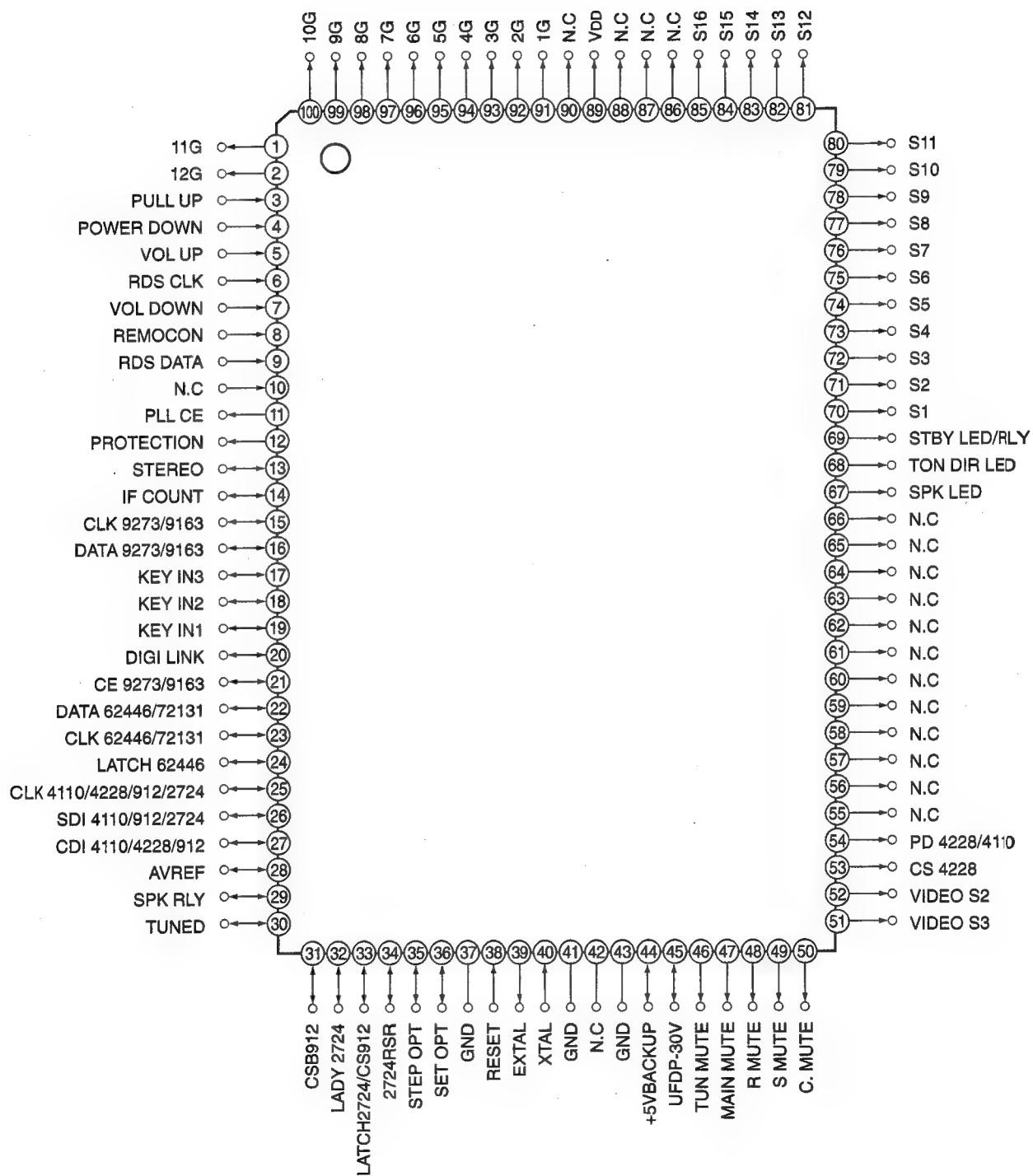
Model No. : RD-6106/G/RDS



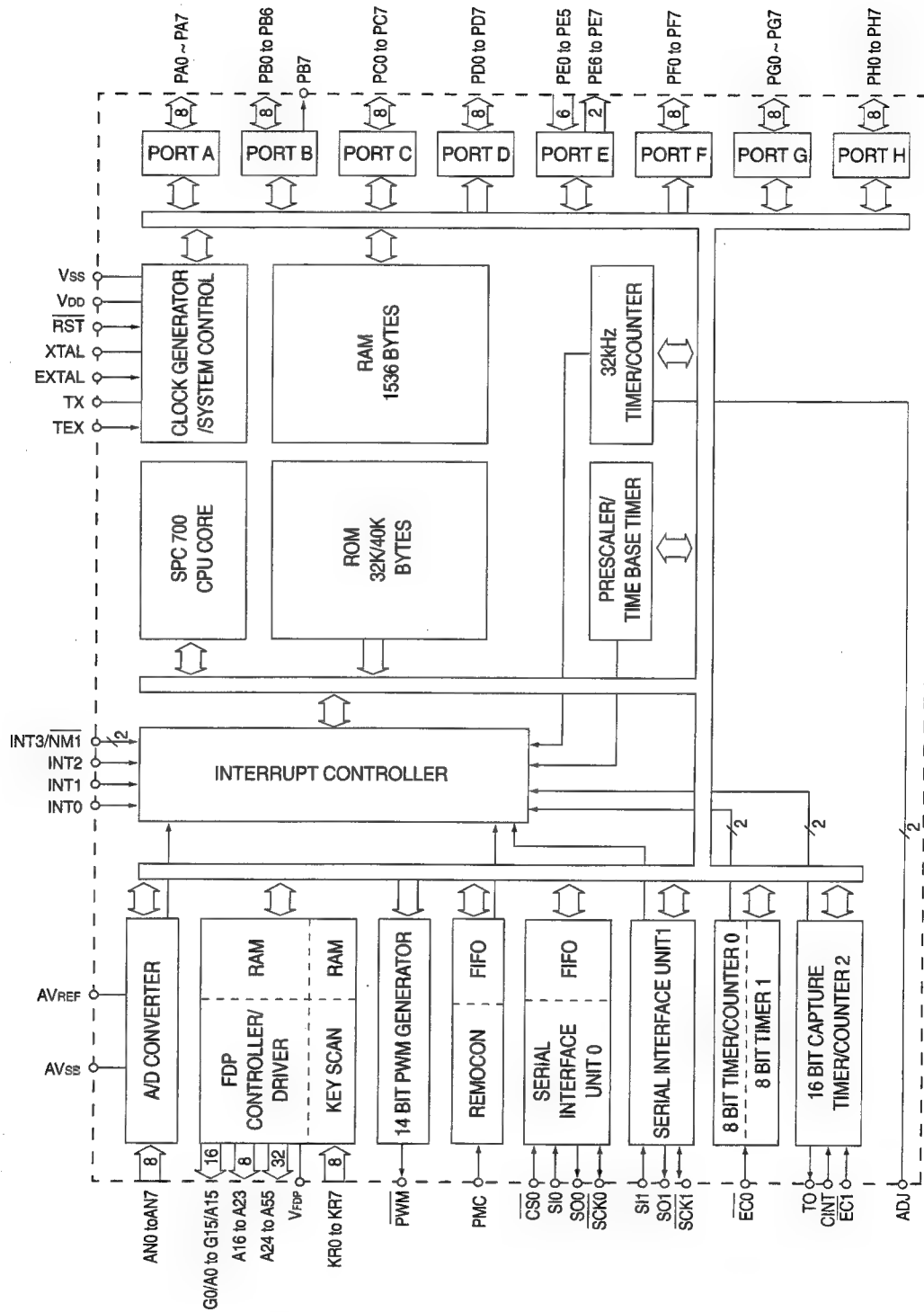
# CIRCUIT DESCRIPTION

## CXP828960Q-1

### 1. Pin Description



## 2. Block Diagram



### 3. CPU Pin Function

PIN NO.	SYMBOL	DESCRIPTION
1~2	11G, 12G	Grid signal output for FIP.
3	PULL UP(N.C)	+5V power supply for pull-up.
4	POWER DOWN	Input for power down.
5	VOLUME UP	Input for main volume up.
6	RDS CLK	Clock signal output for TDA7330.
7	VOLUME DOWN	Input for main volume down.
8	REMOCON	Input for remocon data.
9	RDS DATA	Input for RDS data of TDA7330.
10	N.C	Not used!
11	PLL CE	Output for chip enable of PLL IC LC72131M.
12	PROTECTION	Input for detecting "Protection" condition.
13	STEREO	Input for detecting "Stereo" condition.
14	IF COUNT	Input for detecting "Scan stop" condition.
15	CLK 9273/9163	Clock signal output for TA9273/NJU7312AL.
16	DATA 9273/9163	Output for data of TA9273/NJU7312AL.
17~19	KEYIN1~3	Data input key scan.
20	DIGILINK	Input/Output for controlling digilink.
21	CE 9273/9163	Output for chip enable of TA9273/NJU7312AL.
22	DATA 62446/72131	Output for data of M62446/LC72131.
23	CLK 62446/72131	Clock signal output for M62446/LC72131.
24	LATCH 62446	Output for latch of M62446.
25	CLK 4110/4228/912/2724	Clock signal output for AK4112/AK4527/YSS912/CXD2724AQ3.
26	SDI 4110/4228/912	Serial data input for AK4112/AK4527/YSS912.
27	CDI 410/4228/912	Serial data input for AK4112/AK4527/YSS912.
28	AVREF	Reference voltage. (connected to +5V)
29	SPK RLY	Output for "Speaker switch is ON/OFF".
30	TUNED	Input for detecting "Tuned" condition.
31	CSB912/LADY2724	Sub DSP chip select data output for YSS912/CXD2724AQ3.
32	CS4110/LATCH2724	Output for data of AK4112/LATCH of CXD2724AQ3.
33	CS 912	Output for data of YSS912.

PIN NO.	SYMBOL	DESCRIPTION
34	PON 912/ 2724RST	Initial clear data for YSS912 / CXD2724AQ3
35	STEP OPT	According to region, input for selecting the frequency bands and FM and AM.
36	SET OPT	Input for selecting set (1.7V: RDS, 0V : without RDS Receiver.)
37	GND	Ground.
38	RESET	Input for resetting the CPU. ( "L" condition is active. )
39	EXTAL	Input for 10MHz crystal oscillator.
40	XTAL	Output for 10MHz crystal oscillator.
41	GND	VSS (GROUND)
42	N.C	Not used!
43	GND	Ground.
44	+5V BACK UP	VDD +5V
45	VFDP -30V	-30V POWER SUPPLY for FIP.
46	TUNER MUTE	output for TUNER MUTE. ( " L" condition is active )
47	MAIN MUTE	Output for FRONT CHANNEL MUTE. ( " L" condition is active )
48	R. MUTE	Output for REAR Channel MUTE. ( " L" condition is active )
49	S. MUTE	Output for SUB WOOFER Channel MUTE. ( " L" condition is active )
50	C. MUTE	Output for Center Channel MUTE. ( " L" condition is active )
51~52	VIDEO S2~S3	Output for controlling of VIDEO SOURCE.
53	CS 4228	Output for DATA of AK4527.
54	PD 4228/4110	Output initial data for AK4112/AK4527.
55~66	N.C	Not used!
67	SPK LED	Output to drive speaker LED.
68	TON DIR LED	Output to drive TONE DIRECT LED.
69	STBY LED/RELAY	Output to drive standby LED and power RELAY.
70~85	S1~S15	SEGMENT signal output for FIP.
86~88	N.C	Not used!
89	VDD	VDD +5V
90	N.C	Not used!
91~100	1G~10G	Grid signal output for FIP.



#### 4. Key Matrix Table

	KEY IN1	KEY IN2	KEY IN3
KEY OUT1	CINEMA EQ DELAY TIME	DYNAMIC RANGE TEST TONE	SPK MODE
KEY OUT2	TONE DIRECT STEREO	DIGITAL IN OTHER	6CH DIRECT
KEY OUT3	SPK ON/OFF	STBY	DSP MODE 3 STEREO
KEY OUT4		TA	PTY
KEY OUT5	SEARCH	DISPLAY	PTY SEL
KEY OUT6	ADJ -	ADJ +	TONE MODE AUDIO
KEY OUT7	SPEAKER ON/OFF	STBY ON/OFF	
KEY OUT8	TAPE MONITOR	STEREO VIRTUAL	AUTO PROLOGIC
KEY OUT9	CH SEL	AUDIO	VIDEO
KEY OUT10	TUNE DOWN	TUNE UP	BAND
KEY OUT11	MEMO / ENTER	FM MODE	T/P MODE

# ALIGNMENT PROCEDURES

## TUNER

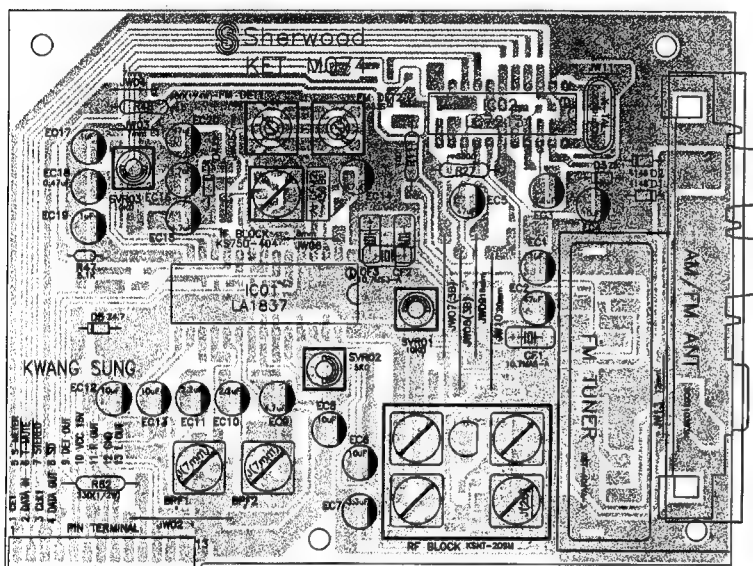
### 1. Equipment Required

- AM Standard Signal Generator (AM SSG)
- Oscilloscope
- AC Voltmeter
- FM Standard Signal Generator (FM SSG)
- Stereo Modulator
- Audio Generator
- Distortion Meter
- DC Voltmeter
- Frequency Counter

**Note :** Disconnect external FM antenna prior to alignment.

### 2. Non RDS Version Alignment

#### 2-1. Alignment and Test Point



#### 2-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30%
- Signal frequency : 400Hz
- Modulation frequency : 600, 1000, 1400kHz
- Switch : press the BAND Button to AM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tuning voltage	520kHz	520kHz	DC voltmeter	RF BLOCK OSC coil	520KHZ : 1.1~1.3V 1710KHZ: 7.2V~8.5V (DC 1.2± 0.1V)
2	RF Tracking	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	RF BLOCK ANT coil	Maximize audio output Repeat LOW, HIGH frequency
3	IF Tracking	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	IF BLOCK Coil KSNT-104I	Maximize audio output

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
4	Seek level	600kHz	600kHz	AC voltmeter oscilloscope tape monitor L/R	SVR 03	Tuned on point

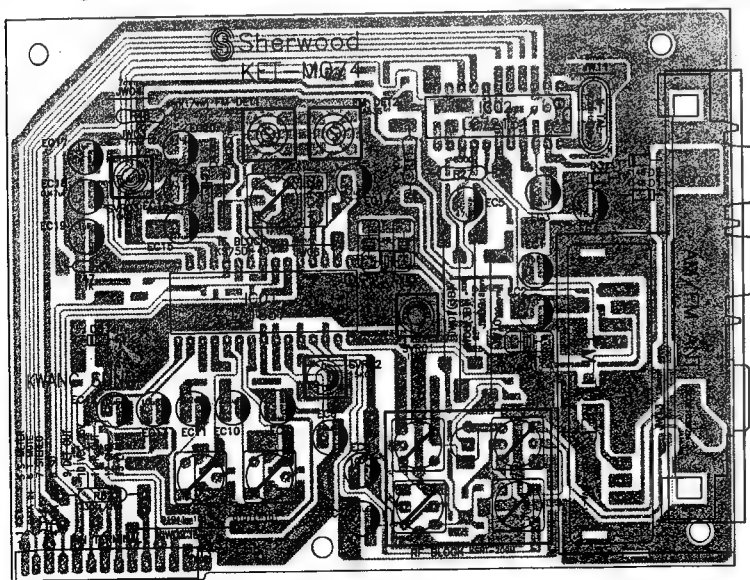
### 2-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : MAIN : 90%, PILOT : 10%
- Signal frequency : 1kHz / Deviation : 75kHz
- Modulation frequency : 90.1MHz, 98.1MHz, 106.1MHz
- Switch : press the BAND Button to FM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	87.5MHz 108MHz	87.5MHz 108MHz	DC voltmeter		87.5MHz : 1.35~1.65V 108MHz : 6.5V~8.5V (DC 1.2± 0.1V)
2	FM DET.0V and Distortion Adj	98.1MHz	98.1MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	FD1 , FD2 R17	Minimize 0V and distortion
3	Seek stop level	98.1MHz	98.1MHz	AC voltmeter oscilloscope tape monitor L/R	SVR 01	Scan stop point to 18dBu
4	STEREO Separation	98.1MHz	98.1MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	MIX coil CO4  SVR02	Minimize STEREO distortion and Maximize separation Separation L to R Separation R to L

### 3. RDS Version Alignment

#### 3-1. Alignment and Test Point



### 3-2. AM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : 30%
- Signal frequency : 400Hz
- Modulation frequency : 600, 1000, 1400kHz
- Switch : press the BAND Button to AM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	522kHz	522kHz	DC voltmeter	RF BLOCK OSC coil	522kHz : 1.1~1.3V 1611kHz: 7.2V~8.5V (DC 1.2± 0.1V)
2	RF Tracking	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	RF BLOCK ANT coil	Maximize audio output Repeat LOW, HIGH frequency
3	IF Tracking	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	IF BLOCK Coil KSNT-104I	Maximize audio output
4	Seek level	603kHz	603kHz	AC voltmeter oscilloscope tape monitor L/R	SVR 03	Tuned on point

### 3-3. FM Alignment

- Output of signal generator should not be greater than necessary to obtain an optimum output reading.
- Signal generator modulation : MAIN : 53.3%, PILOT : 10%
- Signal frequency : 1kHz / Deviation : 40kHz
- Modulation frequency : 90.0MHz, 98.0MHz, 106.0MHz
- Switch : press the BAND Button to FM

Step	Subject	Signal generator setting	Set frequency setting	Equipment connection	Adjustment point	Adjust for
1	Tunning voltage	87.5MHz 108MHz	87.5MHz 108MHz	DC voltmeter		87.5MHz : 1.35~1.65V 108MHz : 6.5V~8.5V (DC 1.2± 0.1V)
2	FM DET.0V and Distortion Adj	98.0MHz	98.0MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	FD1 , FD2 R17	Minimize 0V and distortion
3	Seek stop level	98.0MHz	98.0MHz	AC voltmeter oscilloscope tape monitor L/R	SVR 01	Scan stop point to 18dBu
4	STEREO Separation	98.0MHz	98.0MHz	AC voltmeter oscilloscope DC voltmeter tape monitor L/R	MIX coil CO4  SVR02	Minimize STEREO distortion and Maximize separation Separation L to R Separation R to L

## TROUBLESHOOTING

Symptom	Cause and Remedy	Ref NO.
Power On Failure. 1. FLT does not light up. 2. ST-BY LED does not light up.	A) AC-Cord check. B) Power Trans (Main/ST-BY) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Stany-By switch. F) $\mu$ -COM I.C & Resonator check. 1. $\mu$ -COM IC B+( 5 )V check. 2. $\mu$ -COM clock pulse check.	F ( 712 )  CNT ( 302, 303 ) SW ( 307 )  I.C Pin No. ( 44 ) X-TAL ( 301 )
Fuse Disconnection. (Power On)	A) Inferior transformer. B) AMP drive transistor out. ( POWER TR ) C) AMP drive I.C out. ( POWER IC ) D) Regulator I.C voltage check. 1. B+ ( 15 )V, B- ( 15 ) V	Q ( 214L/R/C/SL/SR )    I.C ( 101/102 )
Key Disorder.	A) Key's being pushed check. B) Key signal input components inferior. C) Key data check. D) $\mu$ -COM I.C or Resonator inferior. 1. $\mu$ -COM IC B+( 5 )V check. 2. $\mu$ -COM clock pulse check.	SW ( 301 ) D ( 310 ), R ( 328 ) I.C Pin No. ( 70 ) I.C Pin No. ( 301 ) I.C Pin No. ( 44 ) X-TAL ( 301 )
Power Off in 2~3 sec. after Power on.	A) Drive I.C out. ( POWER IC ) 1. Power drive voltage check. ( +6 V, - V ) 2. Signal IN/OUT check. B) Drive transistor out. ( POWER TR ) C) Protection circuit check. 1. Output DC check. 2. $\mu$ -COM I.C protection terminal check. D) Posistor's connector disconnection. E) Connector's disconnection or disjunction. F) SLEEP MODE cancellation.	I.C ( 710 )      R ( 123 ) I.C Pin No.( 12 )  CNT ( 301 )
Bump Sound. ( During input-select switch's change. )	A) POWER MUTE Transistor's out and inferior. 1. $\mu$ -Com Front Mute Control PORT check. B) CENTER MUTE Transistor's out and inferior. 1. $\mu$ -Com Center Mute Control PORT check.	Q ( 405, 406, 407L/R ) I.C Pin No. ( 47 ) Q ( 408, 409, 410 ) I.C Pin No. ( 50 )

Symptom	Cause and Remedy	Ref NO.
	C) SURROUND MUTE Trasistor's out and inferior. 1. $\mu$ -Com Surround Mute Control PORT check.	Q ( 411, 412, 413L/R ) I.C Pin No. ( 48 )
Sounds from Speaker when Headphone's connected.	A) Headphone mute TR out. B) HEADPHONE JACK connection inferior. C) $\mu$ -Com I.C inferior. 1. $\mu$ -Com H/P IN/OUT control "PORT" check.	JACK ( 301 )
Bass Control Failure.	A) Bass volume check. 1. Resister/Capacitor correction figure check. 2. BASS VR's property inferior. B) TONE AMP IC check. 1. Signal IN/OUT terminal check. 2. IC voltage check. (+6.8)V, (-6.8)V C) TONE VOLUME IC check. 1. Signal IN/OUT terminal. 2. IC Voltage check. (+ )V, (- )V 3. IC Control data check.	C ( 454L/R, 455L/R ) IC ( 406 ) I.C Pin No. ( 17, 26 ) I.C Pin No. ( 19, 24 ) I.C Pin No. ( 5, 30 ) I.C Pin No. ( 39, 40, 41 )
Treble Control Failure.	A) Treble volume check. 1. Resister/Capacitor correction figure check. 2. Treble VR's property inferior. B) TONE AMP IC check. 1. Signal IN/OUT terminal. 2. IC voltage check. (+ )V, (- )V C) TONE VOLUME IC check. 1. Signal IN/OUT terminal. 2. IC voltage check. (+ )V, (- )V 3. IC control data check.	C ( 456L/R ) IC ( 406 ) I.C Pin No. (18, 25 ) I.C Pin No. ( 39, 40, 41 )
AMP Sound Dead. 1. "L / R" channel dead. 2. "LEFT" channel dead. 3. "RIGHT" channel dead.	A) Signal Mute TR's inferior. B) Connector disconnection & disjunction. 1. Changer or close insertion of the connector. C) Speaker wire's disjunction. 1. Close insertion of the speaker wire. D) Signal switching IC check. 1. IC voltage check. (+15 )V, (-15 )V 2. Switching IC control data check. 3. Switching IC signal IN/OUT check.	Q ( 405, 408, 411, 414 ) CNT ( 403 ) I.C ( 401, 403 ) I.C Pin No.( 1, 28 ) I.C Pin No.( 13, 15, 16 ) I.C Pin No.( 12, 17 )

Symptom	Cause and Remedy	Ref NO.
AC-3/DTS Failure. (DSP Sound Mode)	A) DSP Recoder IC OSC check. B) DIR check. 1. Error Check. 2. LOCK/BCK/SDATA/MCK check. 3. AC-3 Lock Port Check. C) DSP check. 1. Lock check. 2. SDATA 1, 2, 3 check. 3. Micom Interface Port check. D) D/A Check. 1. LOCK/BCK/SDATA check. 2. Signal check. E) IC Voltage check. 1. B+ (DVDD 5V), B- ( ) F) Analog/Digital Input SW check.	X-TAL ( 801 ) IC ( 807 ) I.C Pin No. ( 18 ) I.C Pin No. ( 19, 20, 21, 24 ) I.C Pin No. ( 89 ) I.C Pin No. ( 82, 83, 84, 85 ) I.C Pin No. ( 65 ~ 69 ) I.C Pin No. ( 4, 5, 6, 7, 8 ) I.C Pin No. ( 24 ~ 32 ) I.C Pin No. ( 14, 15, 35, 36 ) I.C Pin No. ( 9 )
Video Output Dead.	A) Video selector SW check. 1. DC voltage check. B+( 12 ), B- ( ) 2. Micom control data check. B) Video output buffer TR check.	IC Pin No. ( 7 ) IC Pin No. ( 2, 3 ) Q ( 401, 402 )
Digi-Link Failure.	A) Digi-link line disconnection check. 1. Digi-Link IN/OUT circuit check. B) $\mu$ -COM IC & Resonator inferior. 1. $\mu$ -COM IC B+(4.5)V check. 2. $\mu$ -COM clock pulse check.	R ( 401 ), D ( 401, 402 ) I.C Pin No. ( 20 ) X-TAL ( 301 )
Remote Controller Failure.	A) Battery check. B) RMC I.C & Resonator inferior. 1. $\mu$ -COM IC B+(4.7)V check. 2. $\mu$ -COM clock pulse check.	I.C Pin No. ( 7 ) X-TAL ( 301 )
FM Failure.	A) FM MUTE adjustment inferior. B) FRONT-END inferior. C) FM DET COIL inferior. D) PLL IC check. 1. PLL IC B+( 5 )V check. 2. PLL control data check. (Data/CE/Clock) E) TUNER B+ voltage inferior.	T ( DET1, DET2 ) I.C Pin No. ( 15 ) I.C Pin No. ( 2, 3, 4, 5 ) I.C Pin No. ( 8 )



Symptom	Cause and Remedy	Ref NO.
	F) $\mu$ -COM I.C & Resonator inferior. 1. $\mu$ -COM IC B+(5)V check. 2. $\mu$ -COM clock pulse check.	I.C ( 301 ) I.C Pin No.( 44 ) X-TAL( 301 )
AM Failure.	A) AM V.T voltage inferior. B) PLL IC check. 1. PLL IC B+( 5 )V check. 2. PLL control data check. (Data/CE/Clock) C) TUNER B+ voltage inferior. D) AM OSC COIL inferior. E) $\mu$ -COM I.C & Resonator inferior. 1. $\mu$ -COM IC B+ ( 5 )V check. 2. $\mu$ -COM clock pulse check.	I.C ( 02 ) I.C Pin No. ( 15 ) I.C Pin No. ( 2, 3, 4, 5 ) I.C Pin No. ( 8 ) T ( RF BLOCK ) I.C ( 301 ) I.C Pin No. ( 44 ) X-TAL ( 301 )
Stereo Effect Failure. Stereo does not light up.	A) FM DET COIL Inferior. B) MPX IC inferior. 1. MPX IC B+ ( 14 )V check. 2. MPX control data check. C) STEREO adjustment inferior. D) FM MUTE adjustment inferior. E) $\mu$ -COM I.C & Resonator inferior. 1. $\mu$ -COM IC B+( 5 )V check. 2. $\mu$ -COM clock pulse check.	T ( DET1, DET2 ) I.C ( 01 ) I.C Pin No. ( 8 ) I.C Pin No. ( 15 ) VR ( 02 ) I.C ( 301 ) I.C Pin No.( 44 ) X-TAL ( 301 )
Tuner Sound Dead. 1. "L / R" channel dead. 2. "LEFT" channel dead. 3. "RIGHT" channel dead.	A) MUTE TR inferior. B) Connector's disconnection or disjunction . 1. Change or Close insertion of the connector. C) AM/FM IF IC check. 1. Signal IN/OUT terminal. 2. I.C driving voltage check. ( +12V ) D) FM DET COIL inferior. E) AM IFT COIL inferior. F) MPX I.C check. 1. Signal IN/OUT terminal. 2. I.C driving voltage check. ( + V )	Q ( 9, 10, 11 ) CNT ( CP401 ) IC ( 01 ) I.C Pin No. ( 1, 16, 17 ) IC ( 01 ) T ( DET1, DET2 ) T ( RF BLOCK ) I.C ( 01 )

MECHANICAL PARTS LIST

♣ Parts without Parts NO are not supplied.

Parts without version mentioned are common ones.

NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
PACKAGE				
	CARTON BOX	6017040120570	1	
	CUSHION, SNOW	6230043714010	1	
	FILM SOFT PE	6320040052010	1	
	POLY BAG (330*240*0.05)	6330040062010	1	
ACCESSORIES				
	INSTRUCTION MANUAL	5707047270010	1	A
	INSTRUCTION MANUAL	5707047270020	1	D/RDS
	INSTRUCTION MANUAL	5707047270030	1	C
	WARRANTY CARD	5727041620020	1	RDS
	WARRANTY CARD	5727041650010	1	A/C/D
	CARD, SAFETY SHEET	5777040850010	1	A
	REMOCON	8300012300260	1	
	REMOCON	8300012300290	1	GOLD(A/C/D)
	ANTENNA, AM LOOP STAND-TYP	E601010000000	1	
	ANTENNA, WIRE	E605010010000	1	
	BATTERY, DRY	G670001R50010	1	
	MATCHING TRANS (US)	L109284007100	1	A
	MATCHING TRANS (EUR)	L109284007200	1	C/D/RDS
CABINET & CHASSIS				
1	FRONT PANEL	3067210301060	1	A/C/D
	FRONT PANEL	3067210301070	1	RDS
	FRONT PANEL	3067210301190	1	GOLD(A/C/D)
2	DECORATION, CAP	5127210081010	1	
	DECORATION, CAP	5127210081110	1	GOLD(A/C/D)
3	WINDOW, DISPLAY	5077210343000	1	A/C/D
	WINDOW, DISPLAY	5077210353000	1	RDS
	WINDOW, DISPLAY	5077210343010	1	GOLD(A/C/D)
4	VOLUME KNOB	5080210281000	1	
	VOLUME KNOB	5087210281100	1	GOLD(A/C/D)
5	BUTTON, SELECTION "A"	5090210681000	1	
	BUTTON, SELECTION "A"	5097210681100	1	GOLD(A/C/D)
6	BUTTON, SELECTION "B"	5090210691000	1	
	BUTTON, SELECTION "B"	5097210691100	1	GOLD(A/C/D)
7	BUTTON, FUNTION "A"	5090210701000	1	
	BUTTON, FUNTION "A"	5097210701100	1	GOLD(A/C/D)
8	BUTTON, FUNTION "B"	5090210711000	1	
	BUTTON, FUNTION "B"	5097210711100	1	GOLD(A/C/D)
9	BUTTON, SPEAKER	5090210671000	1	

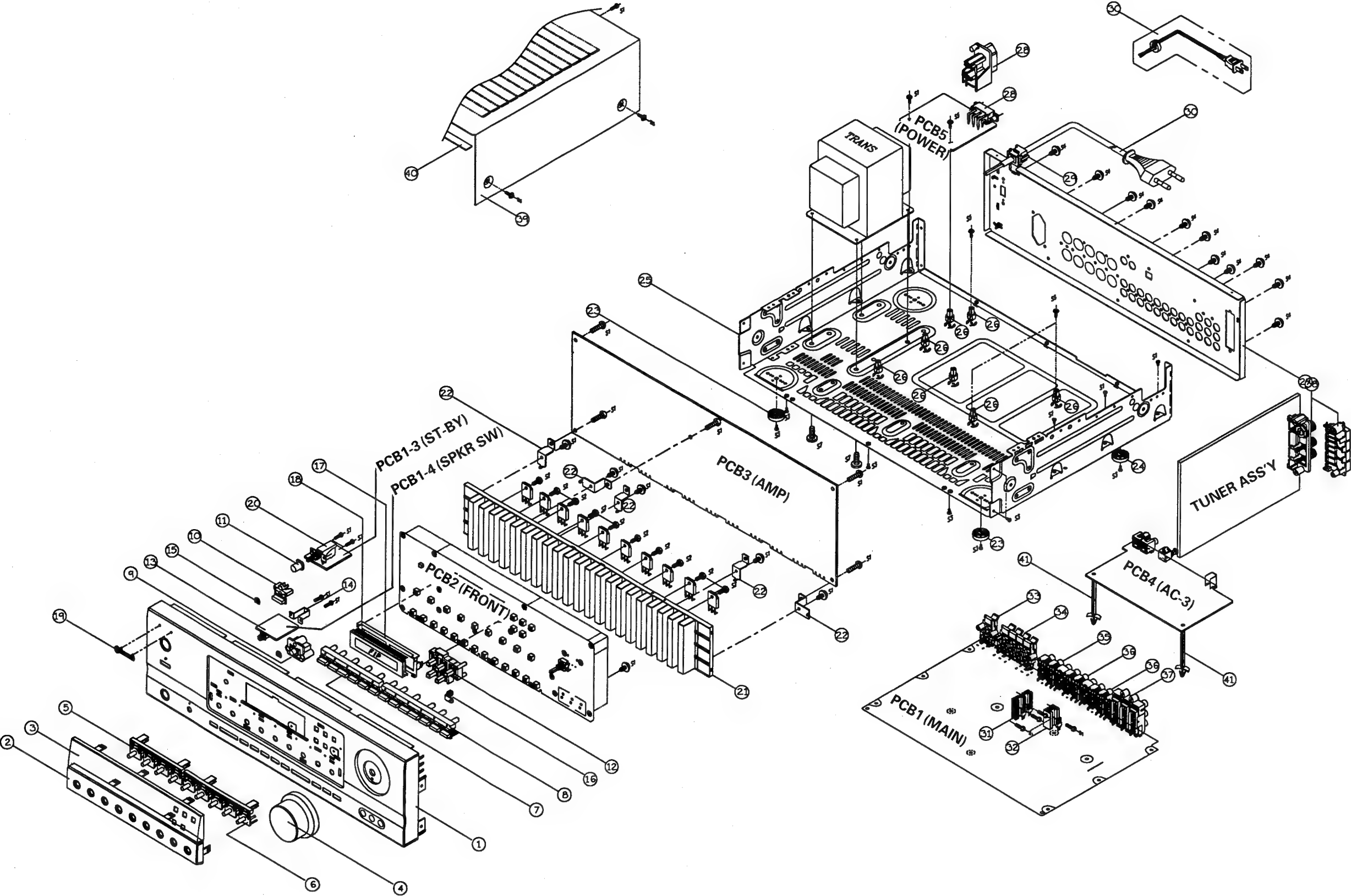
NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
	BUTTON, SPEAKER	5097210671100	1	GOLD(A/C/D)
10	BUTTON, STANBY	5090210661000	1	
	BUTTON, STANBY	5097210661100	1	GOLD(A/C/D)
11	BUTTON, POWER PUSH	5090210431000	1	
	BUTTON, POWER PUSH	5097210431200	1	GOLD(A/C/D)
12	BUTTON, RDS	5090210723000	1	RDS
13	BRACKET, PHONE JACK	G402040161330	1	
14	SHIELD	3070045816010	1	
15	INDICATOR	5160041003010	2	
16	INDICATOR	5160040643010	1	
17	HOLDER, FLT	432004078101A	1	
18	DISPLAY, FLT	K530000360030	1	
19	BADGE, SHERWOOD	5637040371010	1	
	BADGE, SHERWOOD EUROPE	5637210031010	1	GOLD(A/C/D)
20	PUSH SW, SDDL-005-S	G000122006030	1	
21	HEAT SINK, POWER	2120200088010	1	
22	BRACKET, HEAT SINK	4010056906010	5	
23	FOOT PL (H.S)	4007040201010	2	
24	FOOT PL	4000040201010	2	
25	CHASSIS, MAIN	3200200026010	1	
26	SPACER	4300040561010	7	RDS
27	CHASSIS, BACK	3207210326110	1	A
	CHASSIS, BACK	3207210326120	1	RDS
	CHASSIS, BACK	3207210326130	1	D
	CHASSIS, BACK	3207210326140	1	C
28	POWER SOCKET	G435000130000	1	A
	POWER SOCKET	G435000130010	1	C
	POWER SOCKET	G435040110000	1	D/RDS
30	CORD ASS'Y	L068000970020	1	C
	CORD ASS'Y (10A/125V)	L068020030080	1	A
	CORD ASS'Y (6A/250V)	L068040090010	1	D/RDS
31	HEAT SINK TR	2120043538030	1	
32	HEAT SINK TR	2120044298010	1	
33	TER, BOARD PUSH 2P	G592040490010	1	A
	TER, BOARD SCREW 2P	G611021078110	1	RDS
34	TER, BOARD PUSH 8P	G598041680010	1	A
	TER, BOARD SCREW 8P	G614081036000	1	RDS
35	TER, RCA 6PIN	G603060046060	1	
36	TER, RCA 6PIN	G603060046020	2	
37	TER, RCA 9PIN	G607901220070	1	
38	ANT TERMINAL	G590040470000	1	D
	ANT TERMINAL	G594040530000	1	A
39	TOP CABINET	3007041236060	1	

NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
	TOP CABINET	3007041236080	1	GOLD(A/C/D)
40	FELT	4050045669010	2	
SCREWS				
S1	SCREW, +2S 3*8 B-TYPE ZNY/BH	B020030081B10	55	
S2	SCREW, +2S 3*16 P+S-WASHER ZNY/HH	1507041146010	10	
S3	SCREW, +2S 3*8 B-TYPE BK/BH	B020030083B10	12	
S4	SCREW, +2S 3*10 B-TYPE BK/BH	B020030103B10	25	
S5	SCREW, #BWPTT 3X18Y	B020030181X10	7	
S6	SCREW, +3S 4*8 BK/BH	B020940083B10	4	
S7	SCREW, +3S 4*10 P+S-WASHER ZNY/BH	B028940101B10	4	
TUNER ASS'Y				
	FM TUNER (ASS'Y PACKAGE)	E900900100010	1	A
	FM TUNER (ASS'Y PACKAGE)	E900901410020	1	C/D/RDS
MISCELLANEOUS				
Q213	SAP08P, PNP	J500080000010	1	
Q213	SAP08P, PNP	J500080000010	1	
Q213L	SAP08P, PNP	J500080000010	1	
Q213L	SAP08P, PNP	J500080000010	1	
Q213S	SAP08P, PNP	J500080000010	1	
Q213S	SAP08P, PNP	J500080000010	1	
Q213S	SAP08P, PNP	J500080000010	1	
Q213S	SAP08P, PNP	J500080000010	1	
Q214	SAP08N, NPN	J502080000010	1	
Q214L	SAP08N, NPN	J502080000010	1	
Q214S	SAP08N, NPN	J502080000010	1	
Q214S	SAP08N, NPN	J502080000010	1	
	POWER TRANS, 120V/60Hz	8200858630060	1	A
	POWER TRANS	8200858680010	1	C
	POWER TRANS, 230V 50Hz	8200858690060	1	D/RDS

© A → USA (120V/60Hz), C → CHINA (220V/50Hz)  
D → EUR (230V/50Hz), G → RDS (230V/50Hz)

EXPLODED VIEW

Model No. : RD-6106/G/RDS



ELECTRICAL PARTS LIST

♣ Parts without Parts NO are not supplied.  
Parts without version mentioned are common ones.  
⊙ A → USA (120V/60Hz), C → CHINA (220V/50Hz), D → EUR (230V/50Hz), G → RDS (230V/50Hz)

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910010		A
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910020		RDS
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910030		D
PCB1	ASSEMBLY P.C.BOARD MAIN	7025HK9910040		C

CAPACITORS				
C101	CERAMIC CHIP HIK	0.01 uF	50V	K D011103777200 1
C102	ELECT GE 85C	2.2 uF	50V	M D0402R2087100 1
C103	CERAMIC CHIP HIK	0.01 uF	50V	K D011103777200 1
C104/C105	CERAMIC HIK AXIAL	560 pF	50V	K D005561277520 2
C106	CERAMIC HIK AXIAL	0.1 uF	50V	Z D005104597530 1
C107	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C108/C109	ELECT GE 85C	330 uF	10V	M D040331082060 2
C110/C111	ELECT GE 85C	10 uF	50V	M D040100087050 2
C112/C113	ELECT GE 85C	2200 uF	25V	M D040222084200 2
C114-C116	FILM POLYESTER	0.047 uF	100V	J D02047306C060 3
C117	ELECT GE 85C	10 uF	50V	M D040100087050 1
C118	ELECT GE 85C	4700 uF	25V	M D040472084210 1
C119-C121	FILM POLYESTER	0.047 uF	100V	J D02047306C060 3
C122/C123	FILM POLYESTER	0.1 uF	250V	K D02010407H080 2
C124/C125	ELECT GE 85C	6800 uF	63V	M D040682088360 2
C126-C128	FILM POLYESTER	0.1 uF	250V	K D02010407H080 3
C129	ELECT GE 85C	330 uF	10V	M D040331082060 1
C4	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 1 C/D/RDS
C401	CERAMIC HIK AXIAL	0.01 uF	16V	M D005103773530 1
C402	CERAMIC HIK AXIAL	0.022 uF	25V	Z D005223594520 1
C403	CERAMIC HIK AXIAL	0.01 uF	16V	M D005103773530 1
C404	CERAMIC HIK AXIAL	0.001 uF	50V	K D005102177530 1
C405	CERAMIC CHIP HIK	0.01 uF	50V	K D011103777200 1
C406	CERAMIC HIK AXIAL	100 pF	50V	K D005101177520 1
C407	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 1
C408L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C409L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 C/D/RDS
C410L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C411L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 C/D/RDS
C412L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C413L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 C/D/RDS
C414L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C415L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C416L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 C/D/RDS
C417L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C418L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C419L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 C/D/RDS
C420L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C421L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C422L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C423L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2
C424-C427	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 4
C428	ELECT GE 85C	47 uF	25V	M D040470084100 1
C430	ELECT GE 85C	47 uF	25V	M D040470084100 1
C432-C434	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 3

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
C435L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C436/C437	CERAMIC CHIP HIK	0.022 uF	50V	K D011223777200 2
C438L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C439	ELECT GE 85C	10 uF	50V	M D040100087050 1
C441	ELECT GE 85C	10 uF	50V	M D040100087050 1
C443-C445	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 3
C446/C447	ELECT GE 85C	47 uF	25V	M D040470084100 2
C448/C449	ELECT GE 85C	470 uF	16V	M D040471083020 2
C450	CERAMIC CHIP HIK	0.1 uF	50V	Z D011104597200 1
C451-C453	ELECT GE 85C	100 uF	16V	M D040101083100 3
C454L/R	ELECT GE 85C	0.33 uF	50V	M D040R33087100 2
C455L/R	CERAMIC CHIP HIK	0.015 uF	50V	K D011153777200 2
C456L/R	CERAMIC CHIP HIK	8200 pF	50V	K D011822777200 2
C457L/R	ELECT GE 85C	3.3 uF	50V	M D0403R3087050 2
C458L/R	CERAMIC CHIP HIK	1000 pF	50V	K D011102777200 2
C459	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 1
C460/C461	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 A
C463	ELECT GE 85C	100 uF	16V	M D040101083100 1
C464L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 A
C465L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C466	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C467L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 A
C468L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C469	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C470	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 1 A
C471-C473	CERAMIC HIK AXIAL	0.01 uF	16V	M D005103773530 3
C474	ELECT GE 85C	100 uF	35V	M D040101085100 1
C475	CERAMIC CHIP HIK	0.01 uF	50V	K D011103777200 1
C476	ELECT GE 85C	100 uF	35V	M D040101085100 1
C477	CERAMIC CHIP HIK	0.01 uF	50V	K D011103777200 1
C478L/R	CERAMIC CHIP HIK	2200 pF	50V	K D011222777200 2
C479L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C480L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 A
C481L/R	CERAMIC CHIP T.C	100 pF	50V	J D010101167200 2 A
C482/C483	CERAMIC CHIP HIK	1000 pF	50V	K D011102777200 2
C484L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C486	CERAMIC CHIP HIK	2200 pF	50V	K D011222777200 1
C487	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C490	CERAMIC CHIP HIK	1000 pF	50V	K D011102777200 1
C491	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C493L/R	CERAMIC CHIP HIK	2200 pF	50V	K D011222777200 2
C494L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C497/C498	CERAMIC CHIP HIK	1000 pF	50V	K D011102777200 2
C499L/R	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 2
C501	CERAMIC CHIP HIK	2200 pF	50V	K D011222777200 1
C502	ELECT GE 85C	4.7 uF	50V	M D0404R7087100 1
C505	CERAMIC CHIP HIK	1000 pF	50V	K D011102777200 1
C506	ELECT GE 85C	0.1 uF	50V	M D0400R1087050 1
C507	CERAMIC CHIP HIK	820 pF	50V	K D011821777200 1
C509L	CERAMIC CHIP HIK	470 pF	50V	K D011471777200 1
C510L	CERAMIC CHIP HIK	1500 pF	50V	K D011152777200 1
C516-C520	CERAMIC CHIP HIK	0.1 uF	50V	Z D011104597200 5
C901FC	FILM POLYESTER	0.1 uF	63V	K D020104078060 1

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
C901FL	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C901FR	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C901SL	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C901SR	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C902FC	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C902FL	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C902FR	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C902SL	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C902SR	FILM POLYESTER	0.1 uF	63V	K D020104078060 1
C903FC	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C903FL	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C903FR	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C903SL	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C903SR	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C904FC	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C904FL	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C904FR	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C904SL	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS
C904SR	FILM POLYESTER	0.0047 uF	100V	J D02047206C060 1 C/D/RDS

CONNECTORS				
CN401	CN.WIRE 160MM (4P)			L000161040030 1
CN402	CN.WIRE 100MM (14P)			L0001011140010 1
CN403	CN.WIRE 120MM (10P)			L0001111100010 1
CN404	CN.WAFER 2.0MM (3P)			L101353360310 1
CN405	CN.WAFER 2.0MM (6P)			L101353360610 1
CP101	CN.WAFER 2.5MM (10P)			L102526701000 1
CP102	CN.WAFER 2.5MM (9P)			L102526700900 1
CP103	CN.WAFER 2.5MM (4P)			L102526700400 1
CP104	CN.WAFER 3.96MM			L104353280300 1
CP105	CN.WAFER 2.5MM (6P)			L102526700600 1
CP401	CN.WAFER 2.0MM (13P)			L101353361310 1
CP402	CN.WAFER 2.0MM (5P)			L101220050000 1
CP403	CN.FPC 1.25MM (29P)			L131520452945 1
CP713	CN.WIRE 370MM (2P)			L000371020010 1

DIODES				
D101-D106	1SS133T, SWITCHING			K000013300520 6
D107-D112	1N4004A, RECTIFIER 1N			K040400400520 6
D113/D114	KBPC604 6A, BRIDGE			K047604000020 2
D115	1SS133T, SWITCHING			K000013300520 1
D401-D403	KDS160, SWITCHING CHIP			K005016000010 3
D404L/R	KDS160, SWITCHING CHIP			K005016000010 2
D405L/R	KDS160, SWITCHING CHIP			K005016000010 2
D406/D407	KDS160, SWITCHING CHIP			K005016000010 2
D408L/R	KDS160, SWITCHING CHIP			K005016000010 2
D409L/R	KDS160, SWITCHING CHIP			K005016000010 2
ZD101	MTZJ5.1B, ZENER			K06005R144520 1
ZD401	MTZJ12B, ZENER			K06012R044520 1
ZD402/ZD403	MTZJ6.8B, ZENER			K06006R844520 2

INTEGRATED CIRCUITS				
IC101	KA7815/L7815CV, REGULATOR			J126781500020 1

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
IC102	KIA7915PI, REGULATOR	J126791500030	1		R115-R117	CHIP THICK	22 kohm 1/10W J	C200022360200	3	R447	CHIP THICK	470 ohm 1/10W J	C200047160200	1
IC103	KA7805, REGULATOR	J126780500270	1		R118	CHIP THICK	10 kohm 1/10W J	C200010360200	1	R448-R450	CARBON FILM	1 kohm 1/5W J	C00001026P520	3
IC401	TC9273N-007, ANALOG	J080927300000	1		R119	CHIP THICK	47 kohm 1/10W J	C200047360200	1	R451	CARBON FILM	750 ohm 1/5W J	C00007516P520	1
IC402	NJM2068MD, OP	J121206800030	1		R120	CHIP THICK	100 kohm 1/10W J	C200010460200	1	R452	CHIP THICK	2.7 kohm 1/10W J	C200027260200	1
IC403	NJU7312AL, LOGIC	J040731200010	1		R121	CHIP THICK	3.3 kohm 1/10W J	C200033260200	1	R453L/R	CHIP THICK	100 ohm 1/10W J	C200010160200	2
IC404	LA7952, MONITOR SW	J171795200000	1		R122	CARBON FILM	1 kohm 1/5W J	C00001026P520	1	R458L/R	CHIP THICK	100 kohm 1/10W J	C200010460200	2
IC406	M62446FP, ELECT VR	J084624460010	1		R123	CHIP THICK	1.8 kohm 1/10W J	C200018260200	1	R459	CHIP THICK	100 kohm 1/10W J	C200010460200	1
IC407-IC409	NJM2068MD, OP	J121206800030	3		R124	CARBON FILM	2.2 kohm 1/5W J	C00002226P520	1	R460/R461	CARBON FILM	47 ohm 1/5W J	C00004706P520	2
	<b>JACKS</b>				R125	CHIP THICK	1.8 kohm 1/10W J	C200018260200	1	R462L/R	CHIP THICK	39 kohm 1/10W J	C200039360200	2
JACK401	TER, RCA 9PIN	G607901220070	1		R126	METAL FILM 100PPM	10 ohm 1W	C060010065520	1	R463L/R	CHIP THICK	2 kohm 1/10W J	C200020260200	2
JACK402	TER, RCA 6PIN	G603060046020	1		R127	CHIP THICK	27 kohm 1/10W J	C200027360200	1	R464L/R	CHIP THICK	12 kohm 1/10W J	C200012360200	2
JACK403	TER, RCA 6PIN	G603060046020	1		R128/R129	CARBON FILM	27 kohm 1/5W J	C00002736P520	2	R465L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2
JACK404	TER, RCA 6PIN	G603060046060	1		R130/R131	METAL FILM 100PPM	3.3 ohm 2W	C0603R3066520	2	R466	CARBON FILM	4.7 kohm 1/5W J	C00004726P520	1
	<b>COILS</b>				R134-R136	CARBON FILM	51 kohm 1/5W J	C00005136P520	3	R468L/R	CHIP THICK	100 kohm 1/10W J	C200010460200	2
L901SL	INDUCTOR COIL, J9000031	D330900001320	1		R137	METAL FILM 100PPM	3.3 ohm 2W	C0603R3066520	1	R469	CHIP THICK	39 kohm 1/10W J	C200039360200	1
L901SR	INDUCTOR COIL, J9000031	D330900001320	1		R140/R141	CARBON FILM	15 kohm 1/5W J	C00001536P520	2	R470	CHIP THICK	2 kohm 1/10W J	C200020260200	1
	<b>TRANSISTORS</b>				R142	CARBON FILM	4.7 kohm 1/5W J	C00004726P520	1	R471	CHIP THICK	12 kohm 1/10W J	C200012360200	1
Q101	KTC3200BL, NPN	J5023200B0050	1		R143	CARBON FILM	1 kohm 1/5W J	C00001026P520	1	R472	CARBON FILM	1 kohm 1/5W J	C00001026P520	1
Q102	KTA1268BL, PNP	J5001268B0050	1		R143	CARBON FILM	10 kohm 1/5W J	C00001036P520	1	R473	CHIP THICK	4.7 kohm 1/10W J	C200047260200	1
Q103/Q104	KTA1266Y, PNP	J5001266Y0050	2		R144	CHIP THICK	1.8 kohm 1/10W J	C200018260200	1	R475	CHIP THICK	100 kohm 1/10W J	C200010460200	1
Q105	DTC114YS, NPN	J6020114Y0050	1		R401	CHIP THICK	22 kohm 1/10W J	C200022360200	1	R476L/R	CHIP THICK	39 kohm 1/10W J	C200039360200	2
Q106	KSA992F, PNP	J5000992F0050	1		R402	CHIP THICK	220 kohm 1/10W J	C200022460200	1	R477L/R	CHIP THICK	2 kohm 1/10W J	C200020260200	2
Q107-Q112	2SC1740SR, NPN	J5021740S0010	6		R403L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R478L/R	CHIP THICK	12 kohm 1/10W J	C200012360200	2
Q401/Q402	KTC3880S-O, NPN	J5223880O0210	2		R404L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R479L/R	CARBON FILM	1 kohm 1/5W J	C00001026P520	2
Q403	DTC114YK, NPN	J5220114Y0210	1		R405L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R480	CHIP THICK	4.7 kohm 1/10W J	C200047260200	1
Q405	DTC114YK, NPN	J5220114Y0210	1		R406L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R482L/R	CHIP THICK	100 kohm 1/10W J	C200010460200	2
Q406	DTA114YK, PNP	J5200114Y0210	1		R407L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R483	CHIP THICK	39 kohm 1/10W J	C200039360200	1
Q407L/R	DTC323TK, NPN	J502323000050	2		R408L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R484	CHIP THICK	1.2 kohm 1/10W J	C200012260200	1
Q408	DTC114YK, NPN	J5220114Y0210	1		R409L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R485	CHIP THICK	27 kohm 1/10W J	C200027360200	1
Q409	DTA114YK, PNP	J5200114Y0210	1		R410L/R	CHIP THICK	2.2 kohm 1/10W J	C200022260200	2	R486	CARBON FILM	1 kohm 1/5W J	C00001026P520	1
Q410	DTC323TK, NPN	J502323000050	1		R412L/R	CHIP THICK	2.2 kohm 1/10W J	C200022260200	2	R487	CARBON FILM	4.7 kohm 1/5W J	C00004726P520	1
Q411	DTC114YK, NPN	J5220114Y0210	1		R413L/R	CHIP THICK	100 kohm 1/10W J	C200010460200	2	R489	CHIP THICK	100 kohm 1/10W J	C200010460200	1
Q412	DTA114YK, PNP	J5200114Y0210	1		R414	CHIP THICK	8.2 kohm 1/10W J	C200082260200	1	R491	CARBON FILM	47 kohm 1/5W J	C00004736P520	1
Q413L/R	DTC323TK, NPN	J502323000050	2		R415	CHIP THICK	100 kohm 1/10W J	C200010460200	1	R494L	CHIP THICK	330 ohm 1/10W J	C200033160200	1
Q414	DTC114YK, NPN	J5220114Y0210	1		R416	CHIP THICK	2.2 kohm 1/10W J	C200022260200	1	R495L	CHIP THICK	47 kohm 1/10W J	C200047360200	1
Q415	DTA114YK, PNP	J5200114Y0210	1		R418/R419	CARBON FILM	100 ohm 1/5W J	C00001016P520	2	R497	CHIP THICK	2.2 kohm 1/10W J	C200022260200	1
Q416	KTC2875B, NPN	J5222875B0010	1		R420-R422	CARBON FILM	1 kohm 1/5W J	C00001026P520	3	R901SL	METAL FILM 100PPM	10 ohm 1W	C060010065520	1
Q417L	2SK117Y, FET	J5441170Y0050	1		R423L/R	CHIP THICK	47 kohm 1/10W J	C200047360200	2	R901SR	METAL FILM 100PPM	10 ohm 1W	C060010065520	1
	<b>RESISTORS</b>				R424L/R	CHIP THICK	1 kohm 1/10W J	C200010260200	2	R902FC	METAL FILM 100PPM	10 ohm 1W	J C060010065050	1
R101	CHIP THICK	220 ohm 1/10W J	C200022160200	1	R425L/R	CHIP THICK	100 kohm 1/10W J	C200010460200	2	R902FL	METAL FILM 100PPM	10 ohm 1W	J C060010065050	1
R102-R104	CHIP THICK	2.2 kohm 1/10W J	C200022260200	3	R426/R427	CARBON FILM	100 ohm 1/5W J	C00001016P520	2	R902FR	METAL FILM 100PPM	10 ohm 1W	J C060010065050	1
R105	CHIP THICK	560 kohm 1/10W J	C200056460200	1	R428-R430	CARBON FILM	1 kohm 1/5W J	C00001026P520	3	R902SL	METAL FILM 100PPM	10 ohm 1W	J C060010065050	1
R106	CHIP THICK	3.6 kohm 1/10W J	C200036260200	1	R431-R434	CHIP THICK	75 ohm 1/10W J	C200075060200	4	R902SR	METAL FILM 100PPM	10 ohm 1W	J C060010065050	1
R107	CHIP THICK	22 kohm 1/10W J	C200022360200	1	R435/R436	CHIP THICK	47 kohm 1/10W J	C200047360200	2		<b>MISCELLANEOUS</b>			
R108	CHIP THICK	560 kohm 1/10W J	C200056460200	1	R437R438	CHIP THICK	390 ohm 1/10W J	C200039160200	2	RLY101	RELAY, G5PA-28 (24V/5A)		G680240502020	1
R109	CHIP THICK	680 ohm 1/10W J	C200068160200	1	R439	CHIP THICK	3.3 kohm 1/10W J	C200033260200	1	SPK901	TER, BOARD PUSH 8P		G598041680010	1
R110	CARBON FILM	100 ohm 1/5W J	C00001016P520	1	R440	CARBON FILM	75 ohm 1/5W J	C00007506P520	1	SPK902	TER, BOARD PUSH 2P		G592040490010	1
R111/R112	METAL FILM 100PPM	470 ohm 1W	C060047165520	2	R441	METAL FILM 100PPM	220 ohm 1W	J C060022165050	1	GND101	TERMINAL		3790040876010	1
R113/R114	CEMENT MPR	0.1 ohm 1/5W J	C144R10069120	2	R442	METAL FILM 100PPM	270 ohm 1/4W J	C060027163050	1	GND102	TERMINAL		3790040876010	1
					R443L/R	CHIP THICK	100 ohm 1/10W J	C200010160200	2	GND103	TERMINAL		3790040876010	1
					R444L/R	CHIP THICK	470 ohm 1/10W J	C200047160200	2	J101-J151	CN,WIRE 1P		L045084006040	51
					R445	CHIP THICK	470 ohm 1/10W J	C200047160200	1	J192	CARBON FILM	1 kohm 1/5W J	C00001026P520	1
					R446L/R	CHIP THICK	470 ohm 1/10W J	C200047160200	2					

REF NO.	DESCRIPTION				PARTS NO.	Q'TY	VER.
J601	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	
J602	CHIP THICK	0 ohm	1/8W	J	C200000061300	1	
J603/J604	CHIP THICK	0 ohm	1/10W	J	C200000060200	2	
J605-J607	CHIP THICK	0 ohm	1/8W	J	C200000061300	3	
J611	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	
J613-J616	CHIP THICK	0 ohm	1/8W	J	C200000061300	4	
J621/J622	CHIP THICK	0 ohm	1/8W	J	C200000061300	2	
J624/J625	CHIP THICK	0 ohm	1/10W	J	C200000060200	2	
J627	CHIP THICK	0 ohm	1/10W	J	C200000060200	1	
J628	CHIP THICK	0 ohm	1/8W	J	C200000061300	1	
A	CN.WIRE 210MM (1P)				L000211012210	1	
	HEAT SINK				2120043538030	1	
	HEAT SINK				2120044298010	1	
	PUSH SW, SDDL-005-S				G000122006030	1	
PCB1-1 ASSEMBLY P.C.BOARD GUIDE A							
CLAMP101	CLAMP, WIRE				4330000120000	1	
J1-J8	CN,WIRE 1P				L045084006040	1	
PCB1-2 ASSEMBLY P.C.BOARD HEAD PHONE							
CN103	CN.WIRE 360MM (4P)				L000361040030	1	C/D/RDS
CN304	CN.WIRE 360MM (4P)				L000361040030	1	A
	SHIELD				3070045816010	1	
	JACK, D6.5 (HTJ064-11D)				G402040161330	1	
PCB1-3 ASSEMBLY P.C.BOARD ST-BY							
CP302	CN.WAFER 2.0MM (6P)				L101220060000	1	
CP304	CN.WAFER 2.0MM (4P)				L101220040000	1	C/D/RDS
CP304	CN, WIRE FLAT (2651)				L352104083300	1	A
LED301	LED, SLR56VCTB7				K500052101121	1	
SW308	TACT SW, SKQNAF				G180000210030	1	
PCB1-4 ASSEMBLY P.C.BOARD SPKR SW							
CN303	CN, WIRE FLAT (2651)				L352104083300	1	C/D/RDS
CP303	CN.WAFER 2.0MM (4P)				L101220040010	1	A
LED302	LED, SLR56VCTB7				K500052101121	1	
SW307	TACT SW, SKQNAF				G180000210030	1	
PCB1-5 ASSEMBLY P.C.BOARD GUIDE B							
CLAMP102	CLAMP, WIRE				4330000120000	1	
J9-16	CN,WIRE 1P				L045084006040	1	
PCB1-6 ASSEMBLY P.C.BOARD CENEMA EQ							
C508	ELECT GE 85C	1 uF	50V	M	D040010087050	1	
C509R	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	1	
C510R	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1	
C511	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	1	
C512	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1	
CN405	CN.WAFER 2.0MM (6P)				L101352370610	1	
CP404	CN.WAFER 2.0MM (3P)				L101352370310	1	
D410L/R	1SS133T, SWITCHING				K000013300520	2	
D411	1SS133T, SWITCHING				K000013300520	1	
J17	CN,WIRE 1P				L045084006040	1	
REF NO.	DESCRIPTION				PARTS NO.	Q'TY	VER.
Q417R	2SK117Y, FET				J5441170Y0050	1	
Q418	2SK117Y, FET				J5441170Y0050	1	
Q419	DTA114YK, PNP				J5200114Y0210	1	
Q420	DTC114YK, NPN				J5220114Y0210	1	
R490	CHIP THICK	47 kohm	1/10W	J	C200047360200	1	
R492	CHIP THICK	3300 ohm	1/10W	J	C200033160200	1	
R493	CHIP THICK	47 kohm	1/10W	J	C200047360200	1	
R494R	CHIP THICK	3300 ohm	1/10W	J	C200033160200	1	
R495R	CHIP THICK	47 kohm	1/10W	J	C200047360200	1	
R496	CHIP THICK	1 kohm	1/10W	J	C200010260200	1	
PCB2 ASSEMBLY P.C.BOARD FRONT 7025HK9910011 A							
PCB2 ASSEMBLY P.C.BOARD FRONT 7025HK9910021 RDS							
PCB2 ASSEMBLY P.C.BOARD FRONT 7025HK9910031 D							
PCB2 ASSEMBLY P.C.BOARD FRONT 7025HK9910041 C							
CAPACITORS							
C301/C302	CERAMIC HIK AXIAL	820 pF	50V	K	D005821287520	1	
C303	ELECT GE 85C	47 uF	16V	M	D040470083100	1	
C304	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	
C305	CERAMIC HIK AXIAL	100 pF	50V	50V	D005101177520	1	
C306	ELECT GE 85C	4.7 uF	50V	M	D0404R7087100	1	
C307	ELECT GE 85C	0.1 uF	50V	M	D0400R1087050	1	
C308	DOUBLE LAYER(70)	0.047 uF	70UA	5.5V	D090473904010	1	
C309	ELECT GE 85C	47 uF	16V	M	D040470083100	1	
C310	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	
C311/C312	FILM POLYESTER	0.047 uF	100V	J	D02047306C060	2	
C313	ELECT GE 85C	10 uF	50V	M	D040100087050	1	
C314	ELECT GE 85C	33 uF	35V	M	D040330085100	1	
C317-C320	CERAMIC HIK AXIAL	100 pF	50V	50V	D005101177520	4	
C321	ELECT GE 85C	10 uF	50V	M	D040100087050	1	RDS
C322	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	RDS
C323	CERAMIC HIK AXIAL	270 pF	50V	K	D005271277520	1	RDS
C324	ELECT GE 85C	10 uF	50V	M	D040100087050	1	RDS
C325	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	1	RDS
C326/C327	CERAMIC T.C AXIAL	27 pF	50V	50V	D001270167520	2	RDS
C328	CERAMIC HIK AXIAL	0.01 uF	16V	16V	D005103773530	1	
C329/C330	CERAMIC HIK AXIAL	0.1 uF	50V	50V	D005104597530	2	
C331	CERAMIC SEMI DISC	0.1 uF	50V	Z	D006104597050	1	
C332	CERAMIC T.C AXIAL	47 pF	50V	50V	D001470067520	1	
C334	CERAMIC T.C AXIAL	47 pF	50V	50V	D001470067520	1	
CONNECTORS							
CN301	CN.WIRE 400MM (8P)				L000401080010	1	
CN302	CN.WIRE 80MM (6P)				L000800060040	1	
CN303	CN.WIRE 380MM (10P)				L000381100010	1	
CN305	CN.WIRE 450MM (5P)				L022054584320	1	
CP301	CN.FPC 1.25MM (29P)				L131524922920	1	
DIODES							
D301-D305	1SS133T, SWITCHING				K000013300520	5	
D310-D320	1SS133T, SWITCHING				K000013300520	11	
INTEGRATED CIRCUITS							
REF NO.	DESCRIPTION				PARTS NO.	Q'TY	VER.
IC301	CXP828P60Q-1, CPU				J020828601010	1	
IC302	TDA7330BD, CPU				J020733000010	1	RDS
TRANSISTORS							
Q301-Q305	DTC114YS, NPN				J6020114Y0050	5	
RESISTORS							
R301	CARBON FILM	47 ohm	1/5W	J	C00004706P520	1	
R302	CARBON FILM	68 kohm	1/5W	J	C00006836P520	1	
R303	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	
R304	CARBON FILM	68 kohm	1/5W	J	C00006836P520	1	
R305-R307	CARBON FILM	68 kohm	1/5W	J	C00006836P520	3	RDS
R308/R309	CARBON FILM	10 kohm	1/5W	J	C00001036P520	2	
R310	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	
R312/R313	CARBON FILM	47 kohm	1/5W	J	C00004736P520	2	
R314	CARBON FILM	100 kohm	1/5W	J	C00001046P520	1	
R315	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	C//D/RDS
R316	CARBON FILM	4.7 kohm	1/5W	J	C00004726P520	1	C//D/RDS
R316	CARBON FILM	47 kohm	1/5W	J	C00004736P520	1	A
R318	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	RDS
R318	CARBON FILM	47 kohm	1/5W	J	C00004736P520	1	A/C/D
R319	CARBON FILM	100 kohm	1/5W	J	C00001046P520	1	
R320	CARBON FILM	100 ohm	1/5W	J	C00001016P520	1	
R321	CARBON FILM	1 Mohm	1/5W	J	C00001056P520	1	
R322/R323	CARBON FILM	47 kohm	1/5W	J	C00004736P520	2	
R324/R325	CARBON FILM	1 kohm	1/5W	J	C00001026P520	2	
R326	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	A
R326	CARBON FILM	4.7 kohm	1/5W	J	C00004726P520	1	
R327	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	
R328-R337	CARBON FILM	100 kohm	1/5W	J	C00001046P520	10	
R338-R340	CARBON FILM	10 kohm	1/5W	J	C00001036P520	3	
R341/R342	CARBON FILM	1 kohm	1/5W	J	C00001026P520	2	
R343	CARBON FILM	75 ohm	1/5W	J	C00007506P520	1	
R344	CARBON FILM	2.2 kohm	1/5W	J	C00002226P520	1	
R345	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	RDS
R346/R347	CARBON FILM	10 kohm	1/5W	J	C00001036P520	2	RDS
R348	CARBON FILM	2.2 Mohm	1/5W	J	C00002256P520	1	RDS
R349	CARBON FILM	100 kohm	1/5W	J	C00001046P520	1	
R350	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	
SWS							
SW301-SW306	TACT SW, SKQNAF				G180000210030	6	
SW309	TACT SW, SKQNAF				G180000210030	1	
SW310-SW314	TACT SW, SKQNAF				G180000210030	5	RDS
SW315-SW329	TACT SW, SKQNAF				G180000210030	15	
MISCELLANEOUS							
DZ301	MTZJ5.1B, ZENER				K06005R144520	1	RDS
FIP301	DISPLAY, FLT				K530000360030	1	
J301-J352	CN,WIRE 1P				L045084006040	52	
L301	INDUCTOR COIL, 10UH				D330100700520	1	
LED303	LED, SLR56VCTB7				K500052101121	1	
LUG301	RING, TER WIRE 120MM (1P)				8410121010010	1	



REF NO.	DESCRIPTION				PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION				PARTS NO.	Q'TY	VER.							
NR301	NETWORK A-TYPE	100KJ*9-H5.08*2.54-10P	C180104101500	1				C855	ELECT GE 85C	1 uF	50V	M	D040010087050	1		IC808	AK4527-VQ, ANALOG	J080452700010	1			
SEN301	REMOCON MODULE, NJL64H380A		E940643800000	1				C856L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		IC809-IC813	NJM2068MD, LINEAR OP	J121206800030	5			
VOL301	ENCODER SW, EC16B24304		G121162430400	1				C857L/R	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	2			COILS					
X-TAL301	RESONATOR, CST10.0MTW		E830100000050	1				C858L/R	CERAMIC CHIP HIK	1200 pF	50V	K	D011122777200	2								
XTAL302	CRYSTAL, 4.332MHz		E800433200070	1	RDS			C859L/R	CERAMIC CHIP HIK	1000 pF	50V	K	D011102777200	2		BD801-BD805	BEAD COIL, HB-IT2012-121JT	7611010000020	5			
1	TER, RCA 3PIN		G606040300000	1				C860/C861	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2		L801	INDUCTOR COIL, 4.7UH	D3304R7000150	1			
	HOLDER, FLT		432004078101A	1				C862L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2								
								C863L/R	CERAMIC CHIP HIK	3300 pF	50V	K	D011332777200	2			TRANSISTORS					
PCB3	ASSEMBLY P.C.BOARD AC-3			7025HK9910012				C864	ELECT GE 85C	10 uF	50V	M	D040100087050	1		Q802/Q803	DTA114YK, PNP	J5200114Y0210	2			
	CAPACITORS							C865	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1		Q804	DTC114YK, NPN	J5220114Y0210	1			
C801	CERAMIC CHIP T.C	22 pF	50V	J	D010220167200	1		C866	FILM POLYESTER	0.1 uF	63V	K	D020104078060	1		Q805L/R	KTC2874B, NPN	J502287400010	2			
C802	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C867	FILM POLYESTER	0.012 uF	100V	J	D02012306C060	1		Q806/Q807	KTC2874B, NPN	J502287400010	2			
C803	CERAMIC CHIP T.C	22 pF	50V	J	D010220167200	1		C868/C869	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2		Q808L/R	KTC2874B, NPN	J502287400010	2			
C804	CERAMIC CHIP HIK	0.01 uF	50V	K	D011103777200	1		C870	ELECT GE 85C	10 uF	50V	M	D040100087050	1		Q809L/R	2SK117Y, FET	J5441170Y0050	2			
C805	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C871	CERAMIC CHIP HIK	3300 pF	50V	K	D011332777200	1		Q810	DTA114YK, PNP	J5200114Y0210	1			
C806	CERAMIC CHIP T.C	22 pF	50V	J	D010220167200	1		C872	ELECT GE 85C	10 uF	50V	M	D040100087050	1		Q811	DTC114YS, NPN	J6020114Y0050	1			
C807	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C873	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	1		Q812	DTA114YS, PNP	J6000114Y0010	1			
C808	CERAMIC CHIP T.C	22 pF	50V	J	D010220167200	1		C874	CERAMIC CHIP HIK	1000 pF	50V	K	D011102777200	1			RESISTORS					
C809	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C875	CERAMIC CHIP HIK	1200 pF	50V	K	D011122777200	1		R801	CHIP THICK	82 ohm 1/10W	J	C200082060200	1	
C810	ELECT GE 85C	100 uF	16V	M	D040101083100	1		C876	ELECT GE 85C	10 uF	50V	M	D040100087050	1		R802	CHIP THICK	100 kohm 1/10W	J	C200010460200	1	
C811/C812	CERAMIC CHIP T.C	22 pF	50V	J	D010220167200	2		C877	CERAMIC CHIP HIK	3300 pF	50V	K	D011332777200	1		R803	CHIP THICK	18 kohm 1/10W	J	C200018360200	1	
C813	ELECT GE 85C	100 uF	16V	M	D040101083100	1		C878L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		R804	CHIP THICK	4.7 kohm 1/10W	J	C200047260200	1	
C814	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C879L/R	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	2		R805	CHIP THICK	220 ohm 1/10W	J	C200022160200	1	
C815	ELECT GE 85C	47 uF	16V	M	D040470083100	1		C880L/R	CERAMIC CHIP HIK	1000 pF	50V	K	D011102777200	2		R806	CHIP THICK	4.7 kohm 1/10W	J	C200047260200	1	
C816/C817	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2		C881L/R	CERAMIC CHIP HIK	1200 pF	50V	K	D011122777200	2		R807	CHIP THICK	470 ohm 1/10W	J	C200047160200	1	
C818	ELECT GE 85C	470 uF	6.3V	E	D040471081100	1		C882/C883	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2		R808	CHIP THICK	100 kohm 1/10W	J	C200010460200	1	
C819	CERAMIC CHIP HIK	1000 pF	50V	K	D011102777200	1		C884L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		R809	CHIP THICK	82 ohm 1/10W	J	C200082060200	1	
C820	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C885L/R	CERAMIC CHIP HIK	3300 pF	50V	K	D011332777200	2		R810	CHIP THICK	18 kohm 1/10W	J	C200018360200	1	
C821	ELECT GE 85C	470 uF	6.3V	T	D040471081100	1		C886L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2		R811	CHIP THICK	220 ohm 1/10W	J	C200022160200	1	
C822/C823	CERAMIC CHIP T.C	27 pF	50V	J	D010270167200	2		C887L/R	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2		R812	CHIP THICK	4.7 kohm 1/10W	J	C200047260200	1	
C824	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	1		C888L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		R813	CHIP THICK	100 kohm 1/10W	J	C200010460200	1	
C825	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C889	ELECT GE 85C	1 uF	50V	M	D040010087050	1		R814	CHIP THICK	220 ohm 1/10W	J	C200022160200	1	
C826L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		C890	ELECT GE 85C	100 uF	16V	M	D040101083100	1		R815	CHIP THICK	47 kohm 1/10W	J	C200047360200	1	
C828L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2		C891	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		R816	CARBON FILM	3.3 ohm 1/5W	J	C0003R306P520	1	
C830	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		C894	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		R817-R820	CHIP THICK	33 ohm 1/10W	J	C200033060200	4	
C832L/R	ELECT GE 85C	10 uF	50V	M	D040100087050	2			CONNECTORS						R821	CHIP THICK	1 kohm 1/10W	J	C200010260200	1		
C833L/R	CERAMIC CHIP HIK	1500 pF	50V	K	D011152777200	2		CP801	CN.WAFER 2.0MM (10P)			L101220100000	1		R822-R829	CHIP THICK	10 kohm 1/10W	J	C200010360200	8		
C834	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		CP802	CN.WAFER 2.0MM (4P)			L101220040000	1		R830-R833	CARBON FILM	10 kohm 1/5W	J	C00001036P520	4		
C835/C836	ELECT GE 85C	100 uF	16V	M	D040101083100	2		CP803	CN.WAFER 2.0MM (14P)			L101220140000	1		R834-R836	CHIP THICK	10 kohm 1/10W	J	C200010360200	3		
C837/C838	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2			DIODES						R837	CHIP THICK	0 ohm 1/10W	J	C200000060200	1		
C839	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1									R837	CHIP THICK	470 ohm 1/10W	J	C200047160200	1		
C841/C842	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2		D801-D804	KDS160, SWITCHING CHIP			K005016000010	4		R838	CHIP THICK	1 Mohm 1/10W	J	C200010560200	1		
C843	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		D805-D807	1SS133T, SWITCHING			K000013300520	3		R839	CHIP THICK	10 kohm 1/10W	J	C200010360200	1		
C844	ELECT GE 85C	100 uF	16V	M	D040101083100	1		D806	KDS160, SWITCHING CHIP			K005016000010	1		R840	CARBON FILM	33 ohm 1/5W	J	C00003306P520	1		
C845	ELECT GE 85C	470 uF	25V	M	D040471084130	1		D808L/R	KDS160, SWITCHING CHIP			K005016000010	2		R841	CHIP THICK	18 kohm 1/10W	J	C200018340200	1		
C845/C846	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2			INTEGRATED CIRCUITS						R842L/R	CHIP THICK	100 kohm 1/10W	J	C200010460200	2		
C847	ELECT GE 85C	470 uF	25V	M	D040471084130	1		IC801	TK11233AM, REGULATOR			J126112330020	1		R843L/R	CHIP THICK	12 kohm 1/10W	J	C200012360200	2		
C848	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		IC802	YSS912, DOLBY			J081912000010	1		R844L/R	CHIP THICK	3.9 kohm 1/10W	J	C200039260200	2		
C849	ELECT GE 85C	100 uF	16V	M	D040101083100	1		IC803	MC74HCU04AD, LOGIC			J040740400200	1		R845L/R	CHIP THICK	330 ohm 1/10W	J	C200033160200	2		
C850	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1		IC805/IC806	NJM2068MD, LINEAR OP			J121206800030	2		R846L/R	CHIP THICK	10 kohm 1/10W	J	C200010360200	2		
C851	ELECT GE 85C	2.2 uF	50V	M	D0402R2087100	1		IC807	AK4112VF-E2, LOGIC-INTERFACE			J046411200010	1		R847L/R	CHIP THICK	10 kohm 1/10W	J	C200010360200	2		
C852/C853	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2									R848L/R	CHIP THICK	330 ohm 1/10W	J	C200033160200	2		
C854	ELECT GE 85C	100 uF	16V	M	D040101083100	1																





REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION			PARTS NO.	Q'TY	VER.
Q203SR	KSA992F, PNP			J5000992F0050	1		R206SL	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R220SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1
Q204C	KSA992F, PNP			J5000992F0050	1		R206SR	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R221C	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q204L/R	KSA992F, PNP			J5000992F0050	2		R207C	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R221L/R	CARBON FILM	82 ohm	1/5W	J	C00008206P520	2
Q204SL	KSA992F, PNP			J5000992F0050	1		R207L/R	CARBON FILM	470 ohm	1/5W	J	C00004716P520	2	R221SL	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q204SR	KSA992F, PNP			J5000992F0050	1		R207SL	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R221SR	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q205C	KSC1845F, NPN			J5021845F0000	1		R207SR	CARBON FILM	470 ohm	1/5W	J	C00004716P520	1	R222C	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q205L/R	KSC1845F, NPN			J5021845F0000	2		R208C	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R222L/R	CARBON FILM	82 ohm	1/5W	J	C00008206P520	2
Q205SL	KSC1845F, NPN			J5021845F0000	1		R208L/R	CARBON FILM	68 ohm	1/5W	J	C00006806P520	2	R222SL	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q205SR	KSC1845F, NPN			J5021845F0000	1		R208SL	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R222SR	CARBON FILM	82 ohm	1/5W	J	C00008206P520	1
Q206C	KSC1845F, NPN			J5021845F0000	1		R208SR	CARBON FILM	68 ohm	1/5W	J	C00006806P520	1	R223C	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q206L/R	KSC1845F, NPN			J5021845F0000	2		R209C	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R223L/R	CARBON FILM	22 kohm	1/5W	J	C00002236P520	2
Q206SL	KSC1845F, NPN			J5021845F0000	1		R209L/R	CARBON FILM	150 ohm	1/5W	J	C00001516P520	2	R223SL	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q206SR	KSC1845F, NPN			J5021845F0000	1		R209SL	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R223SR	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q207C	KSA992F, PNP			J5000992F0050	1		R209SR	CARBON FILM	150 ohm	1/5W	J	C00001516P520	1	R224C	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q207L/R	KSA992F, PNP			J5000992F0050	2		R210C	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R224L/R	CARBON FILM	22 kohm	1/5W	J	C00002236P520	2
Q207SL	KSA992F, PNP			J5000992F0050	1		R210L/R	CARBON FILM	10 kohm	1/5W	J	C00001036P520	2	R224SL	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q207SR	KSA992F, PNP			J5000992F0050	1		R210SL	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R224SR	CARBON FILM	22 kohm	1/5W	J	C00002236P520	1
Q208C	KTA1024Y, PNP			J5001024Y0050	1		R210SR	CARBON FILM	10 kohm	1/5W	J	C00001036P520	1	R228C	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q208L/R	KTA1024Y, PNP			J5001024Y0050	2		R211C	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R228L/R	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	2
Q208SL	KTA1024Y, PNP			J5001024Y0050	1		R211L/R	CARBON FILM	43 kohm	1/5W	J	C00004336P520	2	R228SL	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q208SR	KTA1024Y, PNP			J5001024Y0050	1		R211SL	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R228SR	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q209C	KTC3206Y, NPN			J5023206Y0050	1		R211SR	CARBON FILM	43 kohm	1/5W	J	C00004336P520	1	R229C	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q209L/R	KTC3206Y, NPN			J5023206Y0050	2		R212C	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R229L/R	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	2
Q209SL	KTC3206Y, NPN			J5023206Y0050	1		R212L/R	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	2	R229SL	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q209SR	KTC3206Y, NPN			J5023206Y0050	1		R212SL	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R229SR	METAL FILM 100PPM	220 ohm	1/4W	J	C060022163050	1
Q215C	KSC1845F, NPN			J5021845F0000	1		R212SR	CARBON FILM	1.5 kohm	1/5W	J	C00001526P520	1	R230C	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1
Q215L/R	KSC1845F, NPN			J5021845F0000	2		R213C	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R230L/R	CARBON FILM	22 ohm	1/5W	J	C00002206P520	2
Q215SL	KSC1845F, NPN			J5021845F0000	1		R213L/R	CARBON FILM	33 kohm	1/5W	J	C00003336P520	2	R230SL	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1
Q215SR	KSC1845F, NPN			J5021845F0000	1		R213SL	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R230SR	CARBON FILM	22 ohm	1/5W	J	C00002206P520	1
							R213SR	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R231C	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
	RESISTORS						R214C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R231L/R	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	2
R201C	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R214L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R231SL	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R201L/R	CARBON FILM	1 kohm	1/5W	J	C00001026P520	2	R214SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R231SR	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R201SL	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R214SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232C	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R201SR	CARBON FILM	1 kohm	1/5W	J	C00001026P520	1	R216C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232L/R	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	2
R202C	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R216L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R232SL	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R202L/R	CARBON FILM	33 kohm	1/5W	J	C00003336P520	2	R216SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R232SR	CARBON FILM	4.7 ohm	1/5W	J	C0004R706P520	1
R202SL	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R216SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R233C	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	1
R202SR	CARBON FILM	33 kohm	1/5W	J	C00003336P520	1	R217C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R233L/R	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	2
R203C	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R217L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R233SL	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	1
R203L/R	CARBON FILM	15 ohm	1/5W	J	C00001506P520	2	R217SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R233SR	CARBON FILM	1.8 kohm	1/5W	J	C00001826P520	1
R203SL	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R217SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R234C	CARBON FILM	2 kohm	1/5W	J	C00002026P520	1
R203SR	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R218C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R234L/R	CARBON FILM	2 kohm	1/5W	J	C00002026P520	2
R204C	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R218L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R234SL	CARBON FILM	2 kohm	1/5W	J	C00002026P520	1
R204L/R	CARBON FILM	15 ohm	1/5W	J	C00001506P520	2	R218SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R234SR	CARBON FILM	2 kohm	1/5W	J	C00002026P520	1
R204SL	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R218SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R235C	CARBON FILM	910 ohm	1/5W	J	C00009116P520	1
R204SR	CARBON FILM	15 ohm	1/5W	J	C00001506P520	1	R219C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R235L/R	CARBON FILM	910 ohm	1/5W	J	C00009116P520	2
R205C	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R219L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R235SL	CARBON FILM	910 ohm	1/5W	J	C00009116P520	1
R205L/R	CARBON FILM	750 ohm	1/5W	J	C00007516P520	2	R219SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R235SR	CARBON FILM	910 ohm	1/5W	J	C00009116P520	1
R205SL	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R219SR	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R236C	CARBON FILM	6.8 kohm	1/5W	J	C00006826P520	1
R205SR	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R220C	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R236L/R	CARBON FILM	6.8 kohm	1/5W	J	C00006826P520	2
R206C	CARBON FILM	750 ohm	1/5W	J	C00007516P520	1	R220L/R	CARBON FILM	560 ohm	1/5W	J	C00005616P520	2	R236SL	CARBON FILM	6.8 kohm	1/5W	J	C00006826P520	1
R206L/R	CARBON FILM	750 ohm	1/5W	J	C00007516P520	2	R220SL	CARBON FILM	560 ohm	1/5W	J	C00005616P520	1	R236SR	CARBON FILM	6.8 kohm	1/5W	J	C00006826P520	1

RESISTORS

REF NO.	DESCRIPTION					PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION					PARTS NO.	Q'TY	VER.
R237C	CARBON FILM	39 ohm	1/5W	J		C00003906P520	1		R710	METAL FILM 100PPM	ERC-12UGK335	C060033574530	1		A		
R237L/R	CARBON FILM	39 ohm	1/5W	J		C00003906P520	2		R712/R713	CARBON FILM	10 kohm	1/5W	J		C00001036P520	2	
R238C	CARBON FILM	39 ohm	1/5W	J		C00003906P520	1		R714	CARBON FILM	15 kohm	1/5W	J		C00001536P520	1	
R238L/R	CARBON FILM	39 ohm	1/5W	J		C00003906P520	2		R716	METAL FILM 100PPM	47 ohm	1/4W	J		C060047063050	1	
R239C	CARBON FILM	39 ohm	1/5W	J		C00003906P520	1		R718	CARBON FILM	1.8 kohm	1/5W	J		C00001826P520	1	
R239L/R	CARBON FILM	39 ohm	1/5W	J		C00003906P520	2										
R240C	CARBON FILM	39 ohm	1/5W	J		C00003906P520	1										
R240L/R	CARBON FILM	39 ohm	1/5W	J		C00003906P520	2										
R245L/R	CARBON FILM	22 kohm	1/5W	J		C00002236P520	2										
	MISCELLANEOUS																
	CN,WIRE 1P					L045084006040	1										
PCB5	ASSEMBLY P.C.BOARD POWER					7025HK9910014		A									
PCB5	ASSEMBLY P.C.BOARD POWER					7025HK9910024		RDS									
PCB5	ASSEMBLY P.C.BOARD POWER					7025HK9910034		D									
PCB5	ASSEMBLY P.C.BOARD POWER					7025HK9910044		C									
	CAPACITORS																
C710-C712	FILM POLYESTER	0.047 uF	100V	J		D02047306C060	3										
C713	CERAMIC SEMI DISC	0.1 uF	50V	Z		D006104597050	1										
C714	CERAMIC AC(SAFETY)	DE7150-487F	472MVAI			D00847208K03D	1										
C717	ELECT GE 85C	470 uF	25V	M		D040471084130	1										
C718	ELECT GE 85C	1 uF	50V	M		D040010087050	1										
C719	ELECT GE 85C	100 uF	50V	M		D040101087100	1										
	CONNECTORS																
CP710	CN.WAFER 2.5MM (4P)					L102526700400	1										
CP711	CN.WAFER 3.96MM					L104353280200	1										
CP712	CN.WAFER 7.92MM (2P)					L108039602010	1										
CP713	CN.WAFER 3.96MM					L104353280200	1										
CP714	CN.WAFER 2.0MM (8P)					L101220080000	1										
	DIODES																
D710-D713	1N4004A, RECTIFIER 1N					K040400400520	4										
D714-D717	1SS133T, SWITCHING					K000013300520	4										
ZD711	MTZJ7.5B, ZENER					K06007R544520	1										
ZD712/ZD713	MTZJ15B, ZENER					K06015R044520	2										
ZD715	MTZJ4.3B, ZENER					K06004R344520	1										
	FUSES																
F711	FUSE, 250V-T2.5A					G650252251160	1	C/D/RDS									
F712	FUSE, 250V-T4A					G650402251160	1	C/D/RDS									
F712	FUSE, 125V-S6A					G650602121150	1	A									
	COILS																
L710-L712	INDUCTOR COIL, 10UH					D330100700520	3										
	TRANSISTORS																
Q711	DTC114YS, NPN					J6020114Y0050	1										
Q712	KSA916Y, PNP					J5000916Y0050	1	A/C									
Q912	KSA916Y, PNP					J5000916Y0050	1	D/RDS									
	RESISTORS																

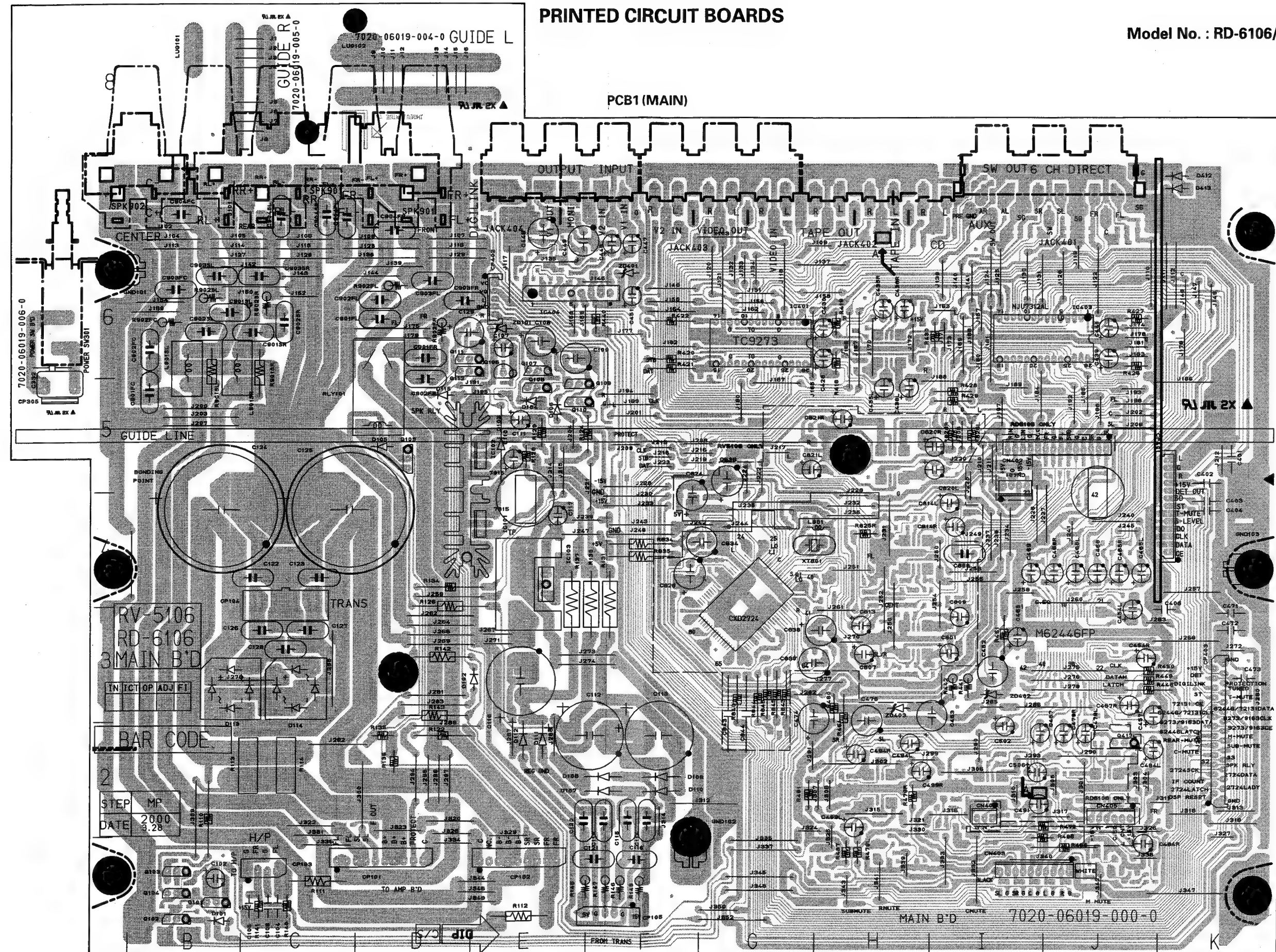
★ MAIN PCB ASS'Y (PCB1) INCLUDES THE FOLLOWING BOARDS.

- ① THE ASS'Y PCB GUIDE A (PCB1-1).
- ② THE ASS'Y PCB HEAD PHONE (PCB1-2).
- ③ THE ASS'Y PCB ST-BY (PCB1-3).
- ④ THE ASS'Y PCB SPKR SW (PCB1-4).
- ⑤ THE ASS'Y PCB GUIDE B (PCB1-5).
- ⑥ THE ASS'Y PCB CENEMA EQ (PCB1-6).



# PRINTED CIRCUIT BOARDS

Model No. : RD-6106/G/RDS





SPK SW B'D

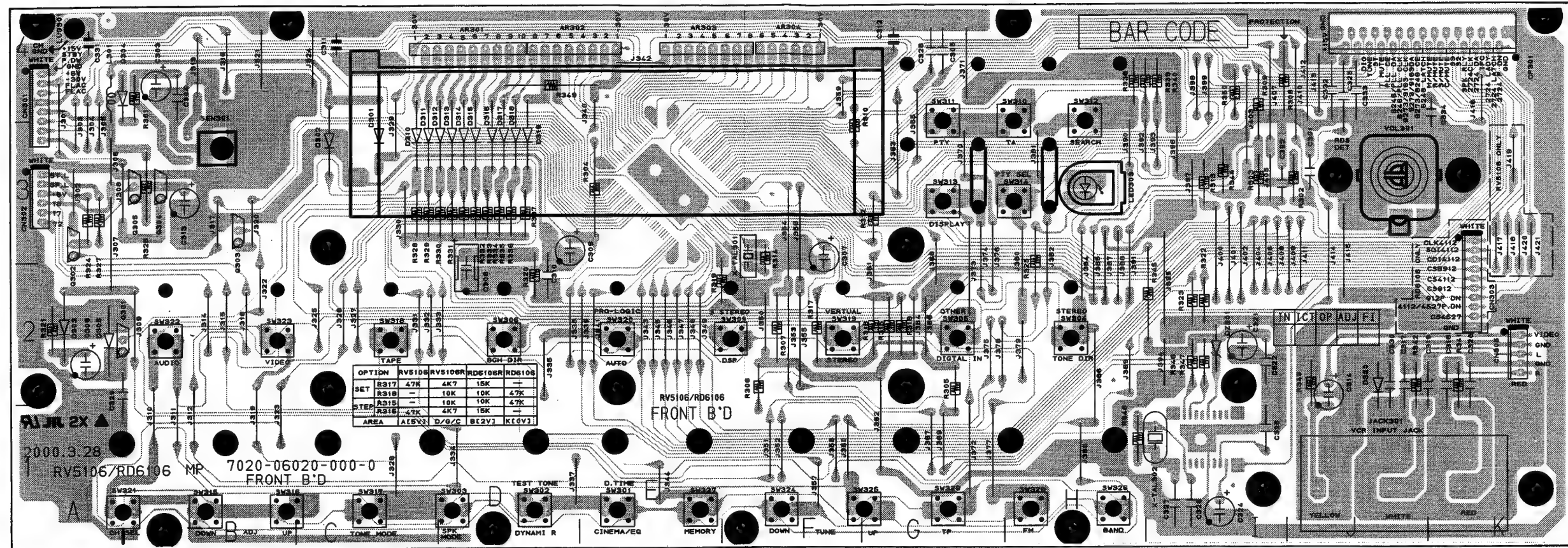
7020-06019-003-0

LED 9015

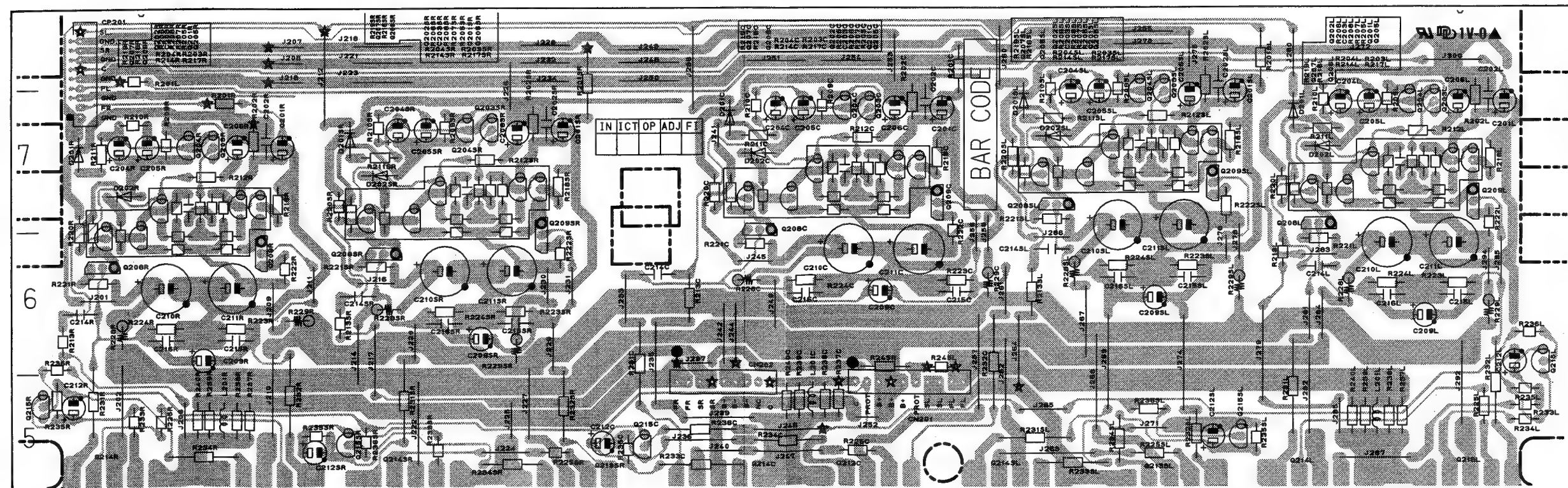
ALL IN 2X



PCB2 (FRONT)



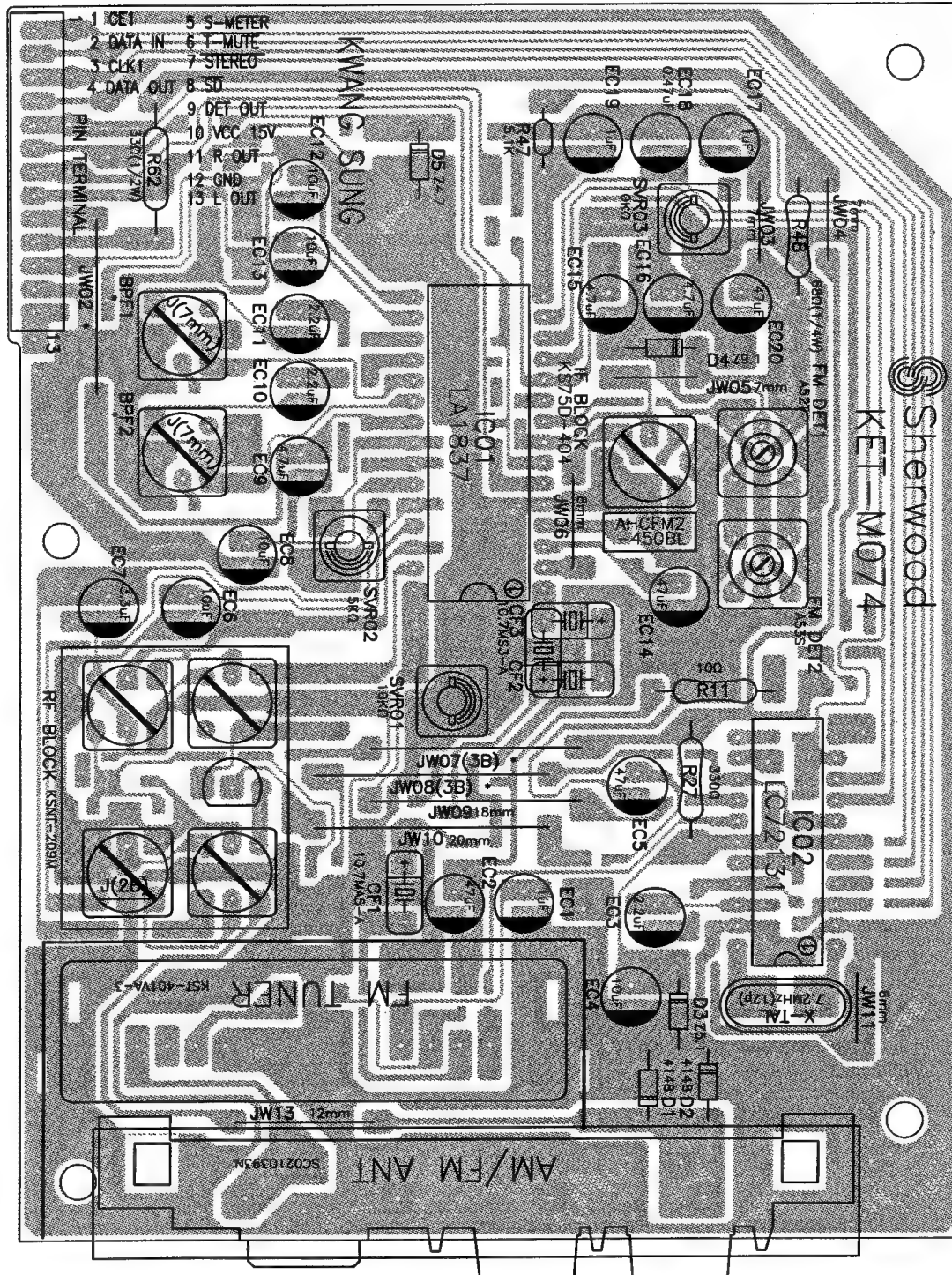
PCB4 (AMP)





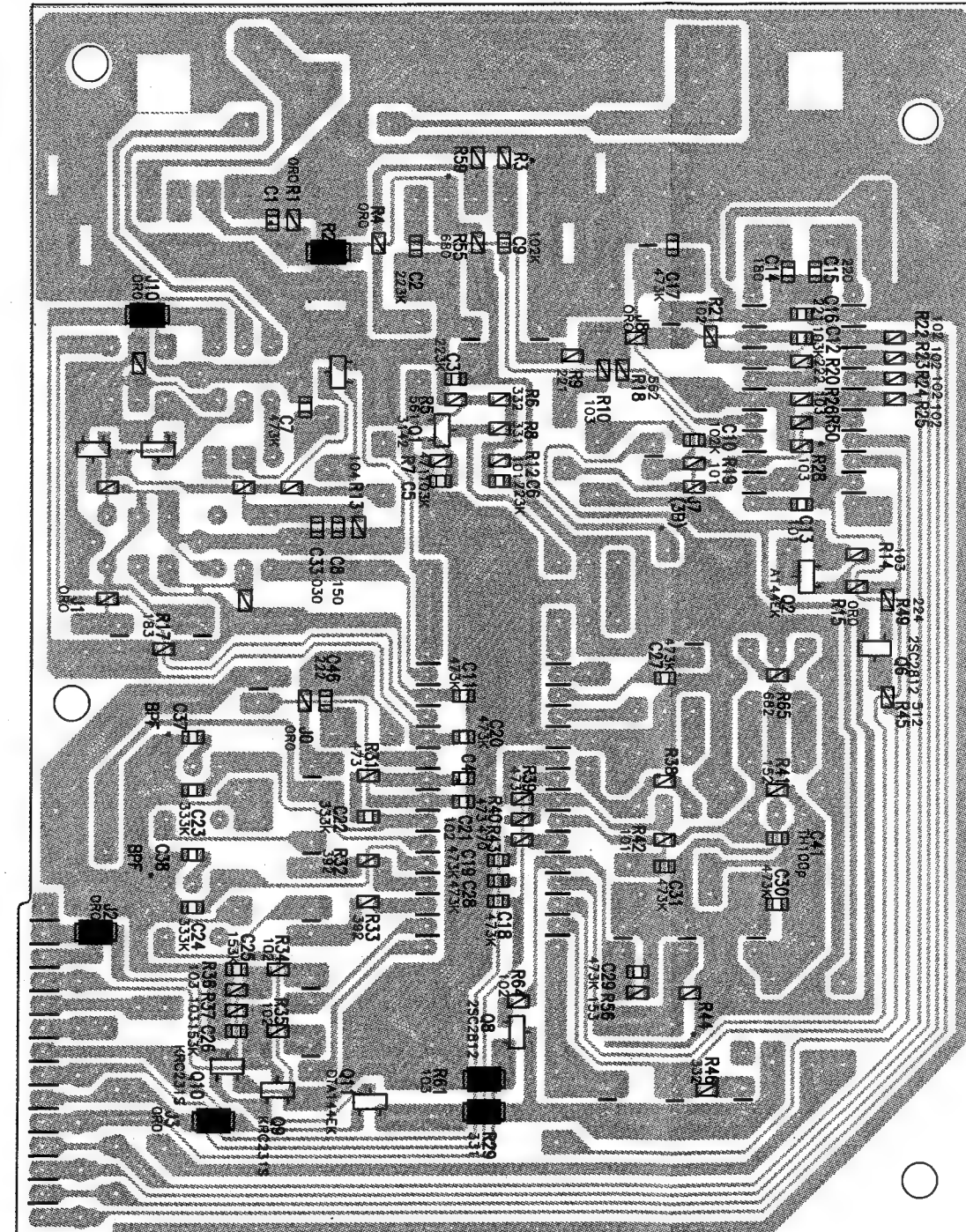
TOP VIEW

TUNER ASS'Y (A ONLY)



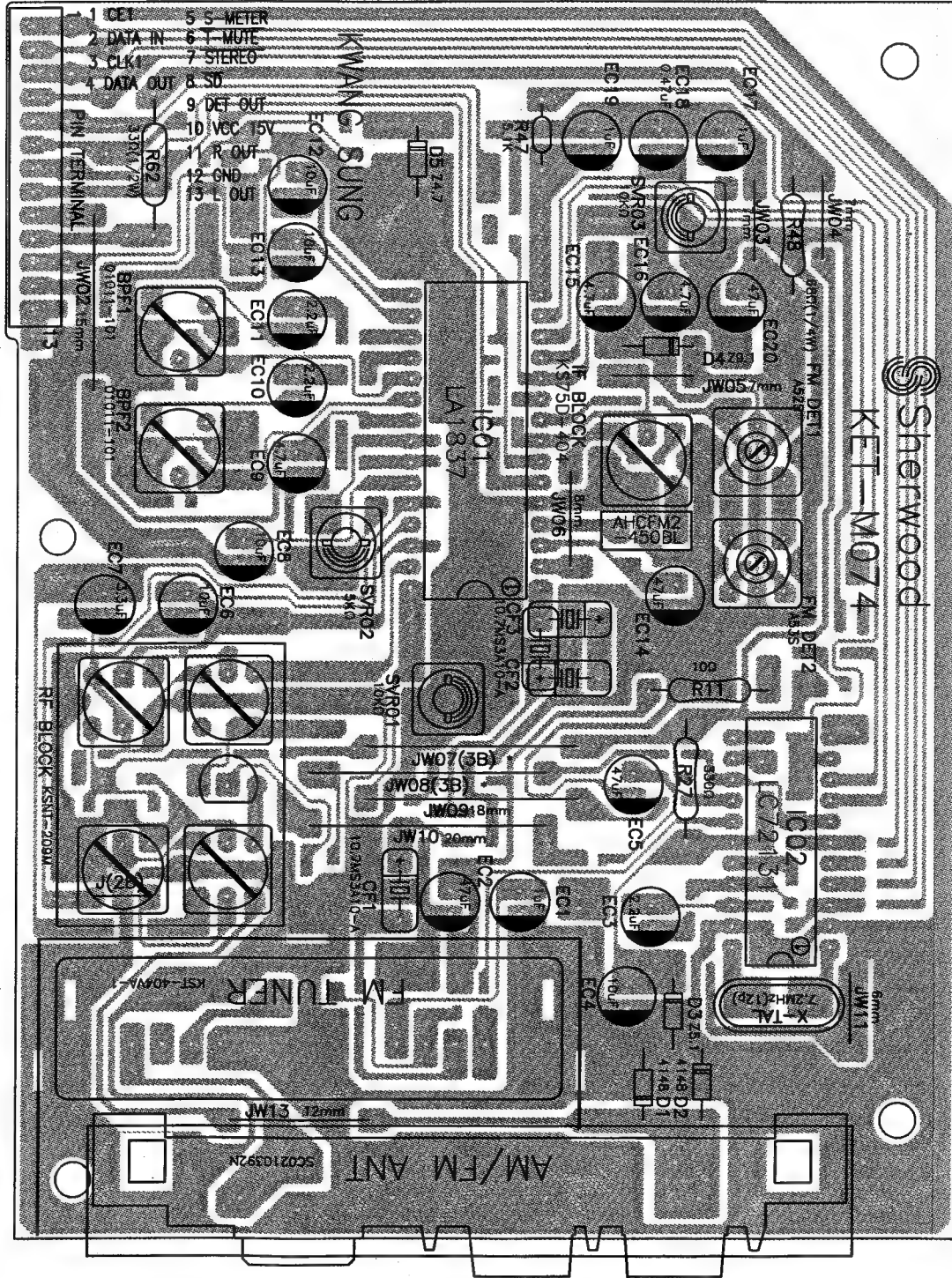
BOTTOM VIEW

TUNER ASS'Y (A ONLY)

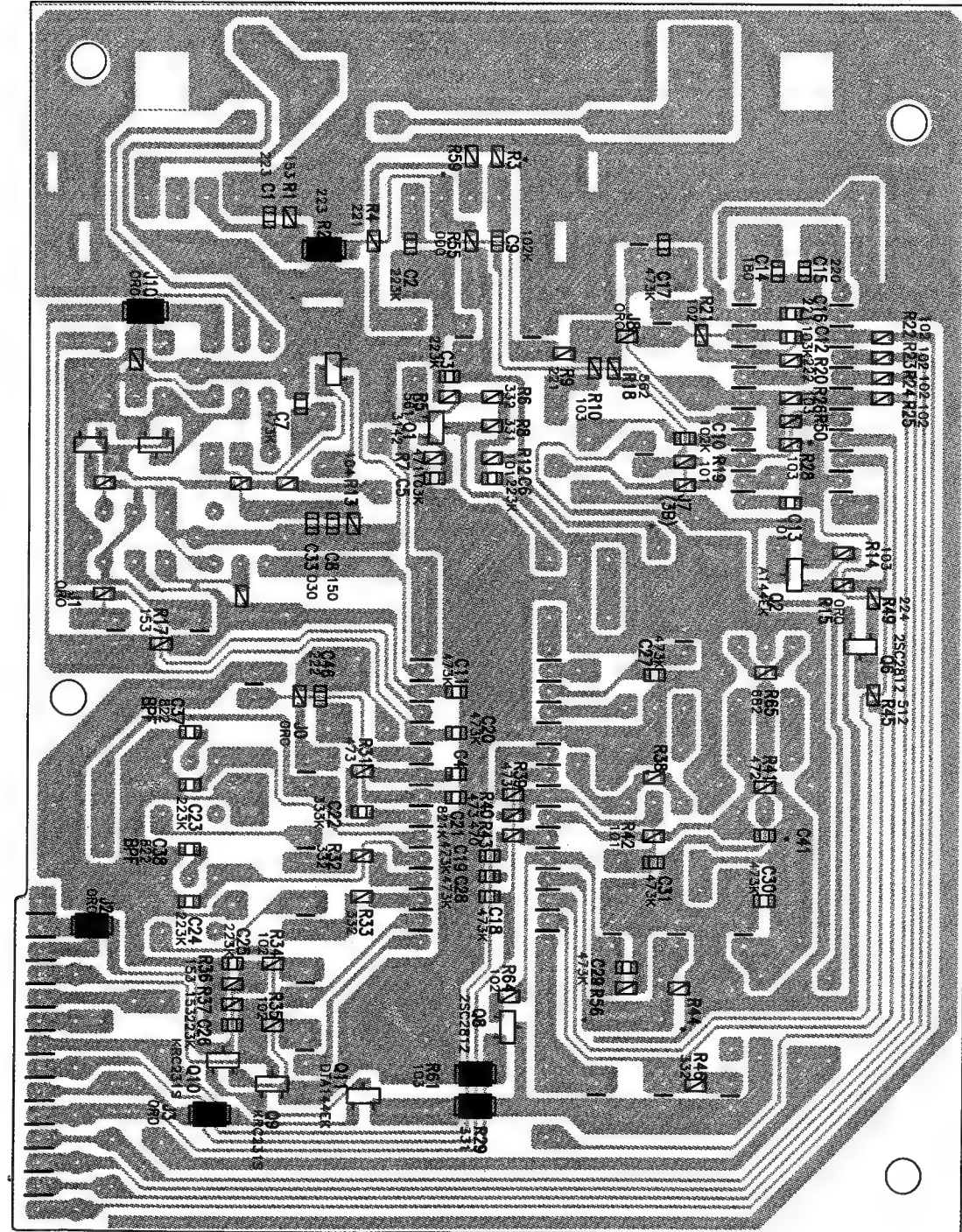




**TOP VIEW**

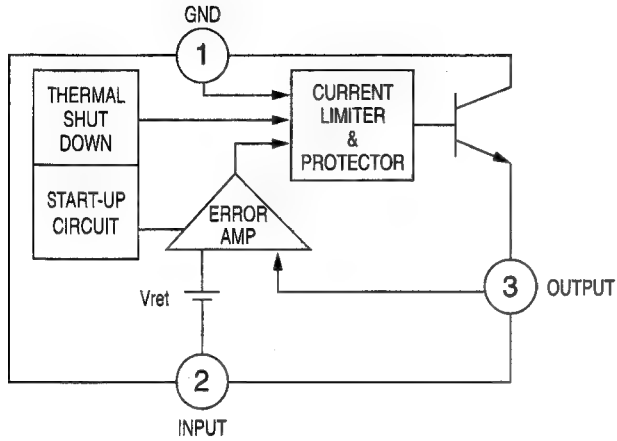
**TUNER ASS'Y (C/D/RDS ONLY)**

**BOTTOM VIEW**

**TUNER ASS'Y (C/D/RDS ONLY)**

## IC'S FUNCTIONAL BLOCK DIAGRAM

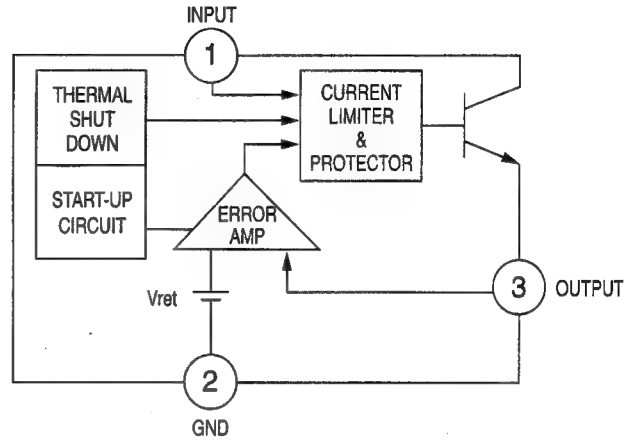
**KIA7915PI : IC102**



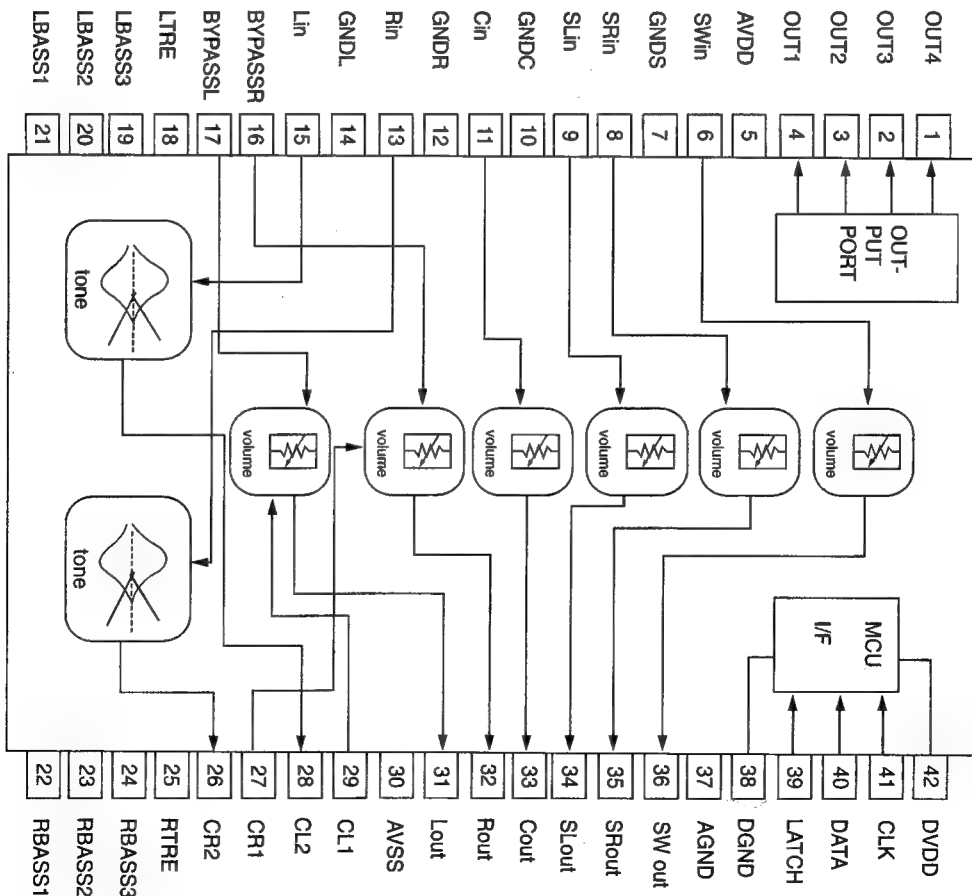
**KA7815/IL7815CV : IC101**

**KA7805 : IC103**

**KA7806 : IC710**

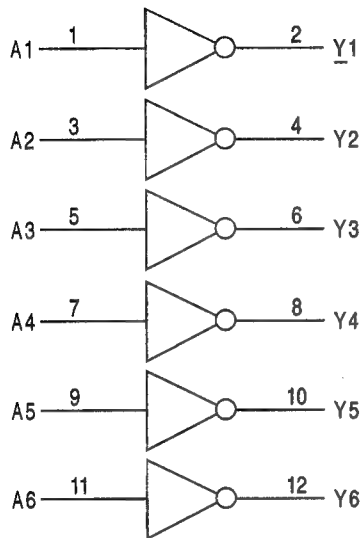


**M62446FP : IC406**

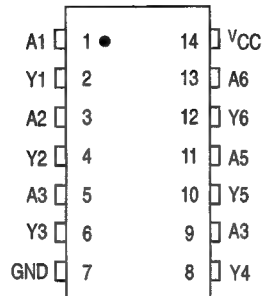


### MC74HCU04AD : IC803

LOGIC DIAGRAM



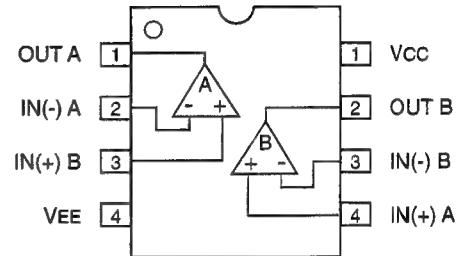
PIN ASSIGNMENT



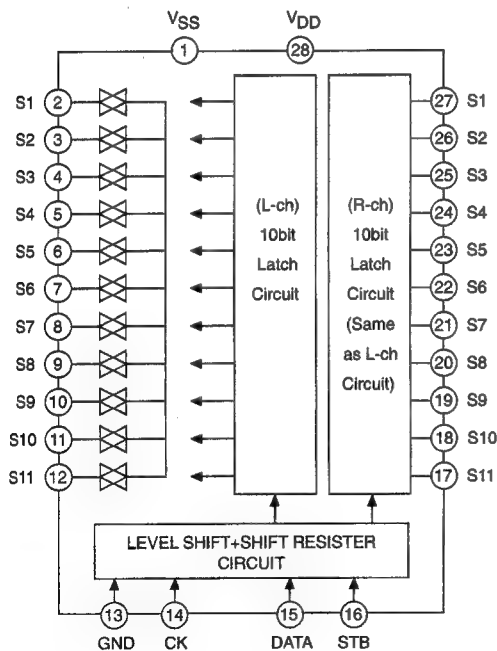
FUNCTION TABLE

Inputs A	Outputs Y
L	H
H	L

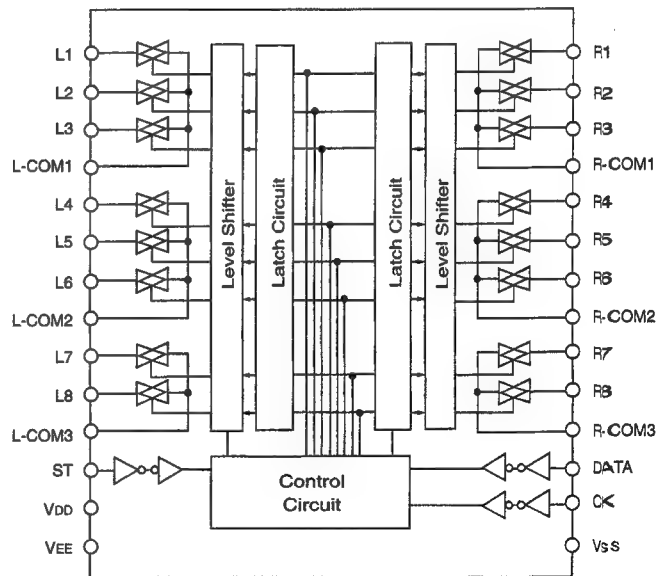
### NJM2068MD : IC402, IC407, IC408, IC409, IC805, IC806, IC809, IC810, IC811, IC812, IC813



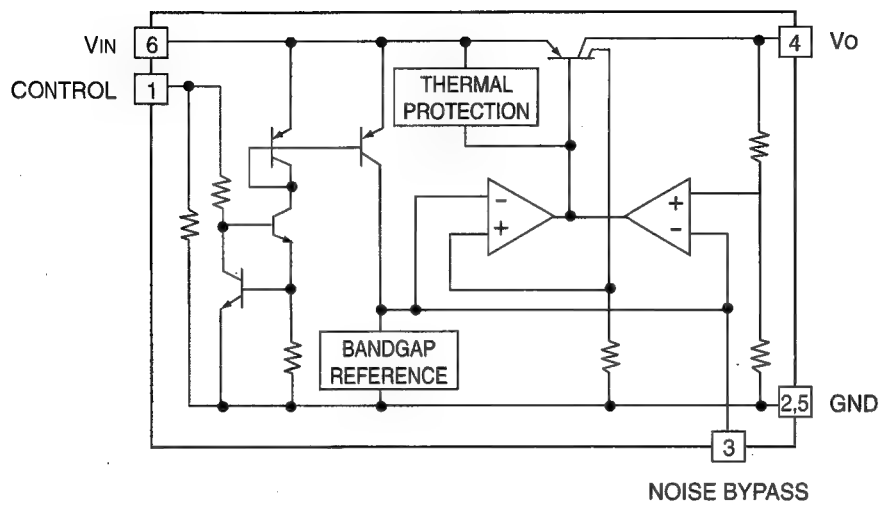
### TC9273N-007 : IC401



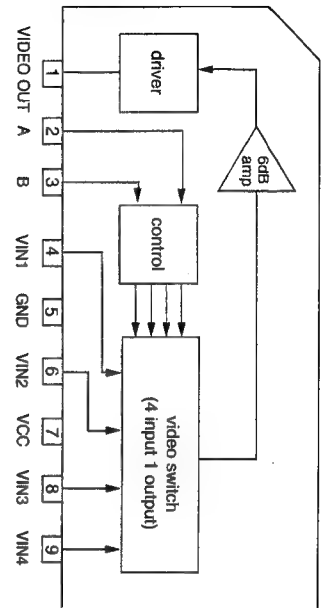
### NJU7312AL : IC403



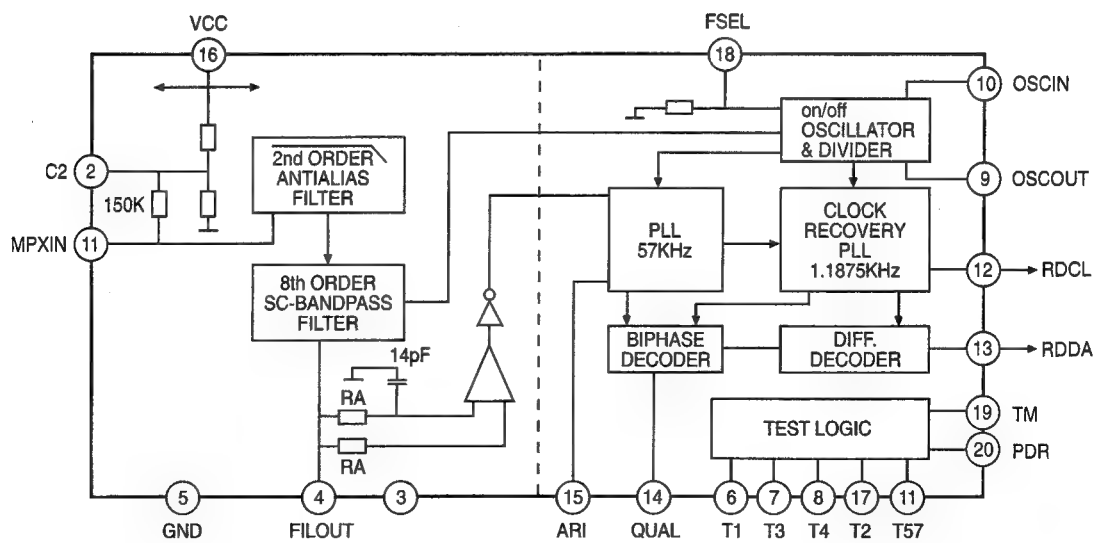
### TK11233AM : IC801



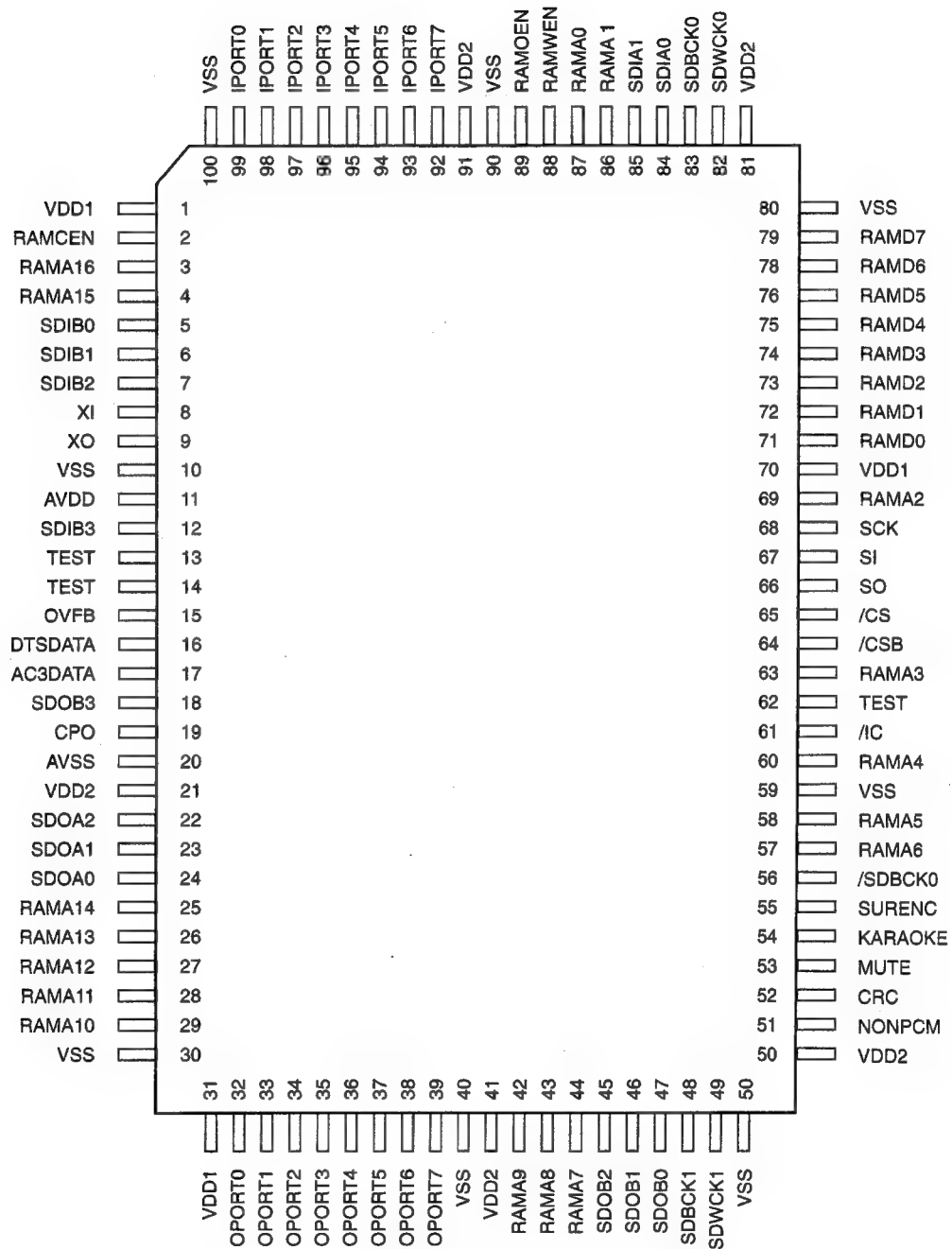
### LA7952 : IC404



### TDA7330BD : IC302

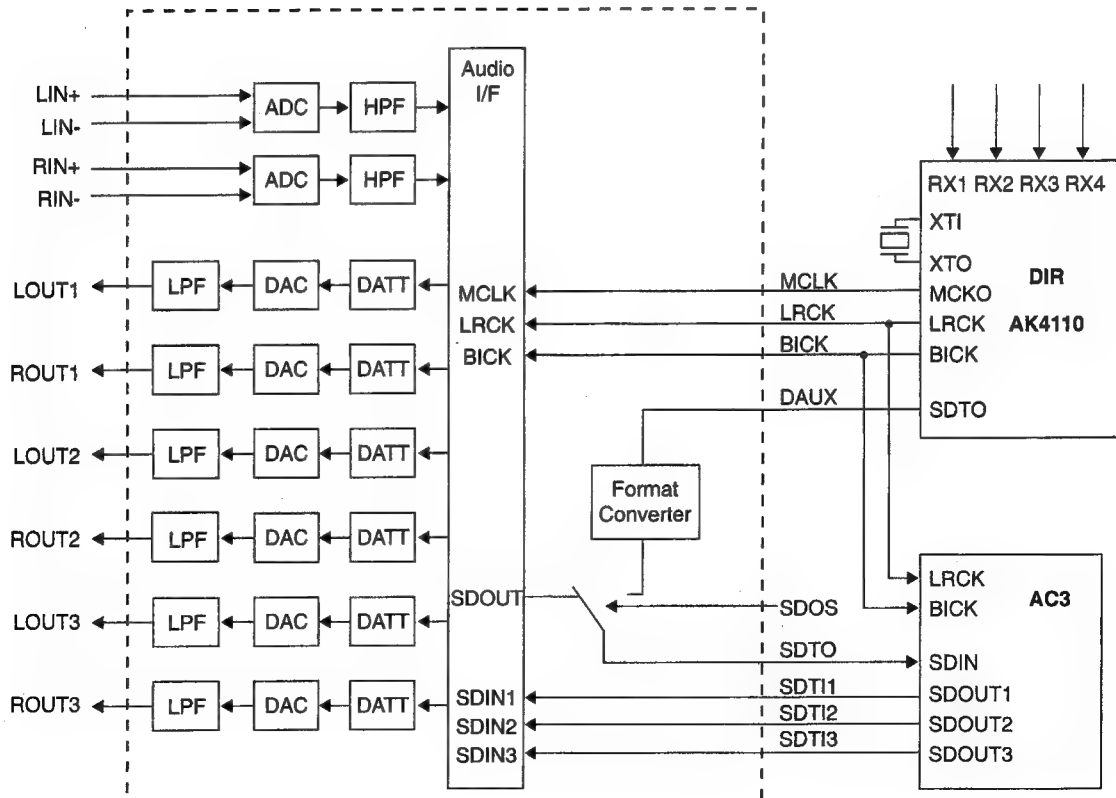
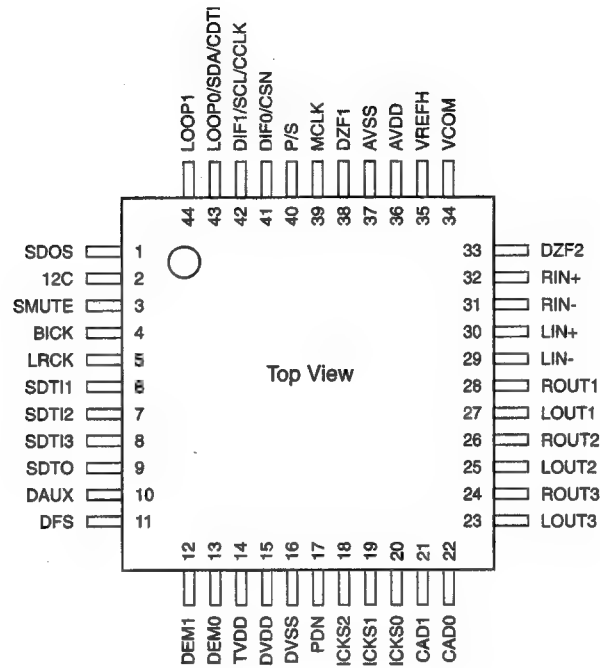


**YSS912 : IC802**





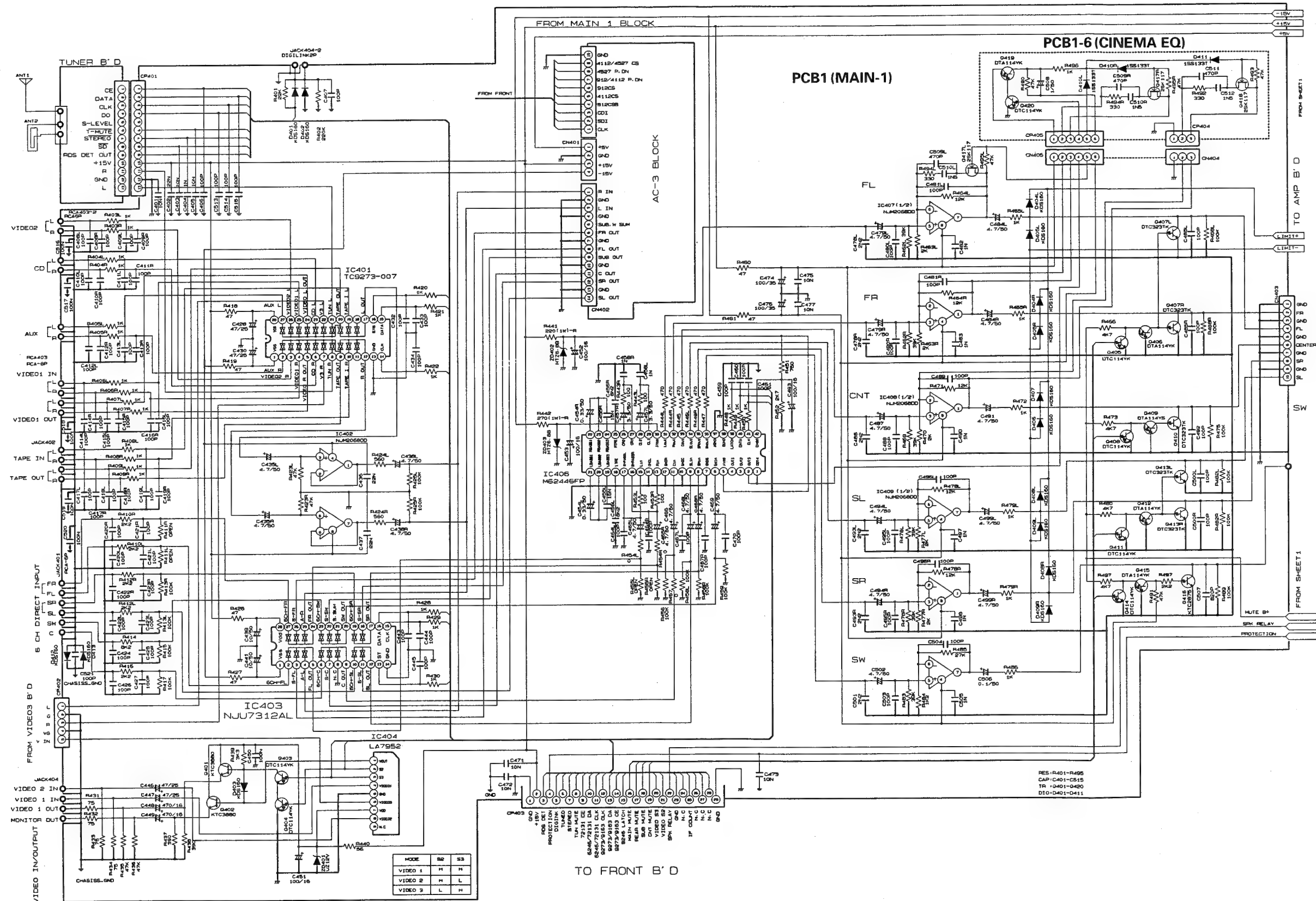
# AK4527-VQ : IC808





SCHEMATIC DIAGRAM (I)

Model No. : RD-6106/G/RDS





**Model No. : RD-6106/G/RDS**

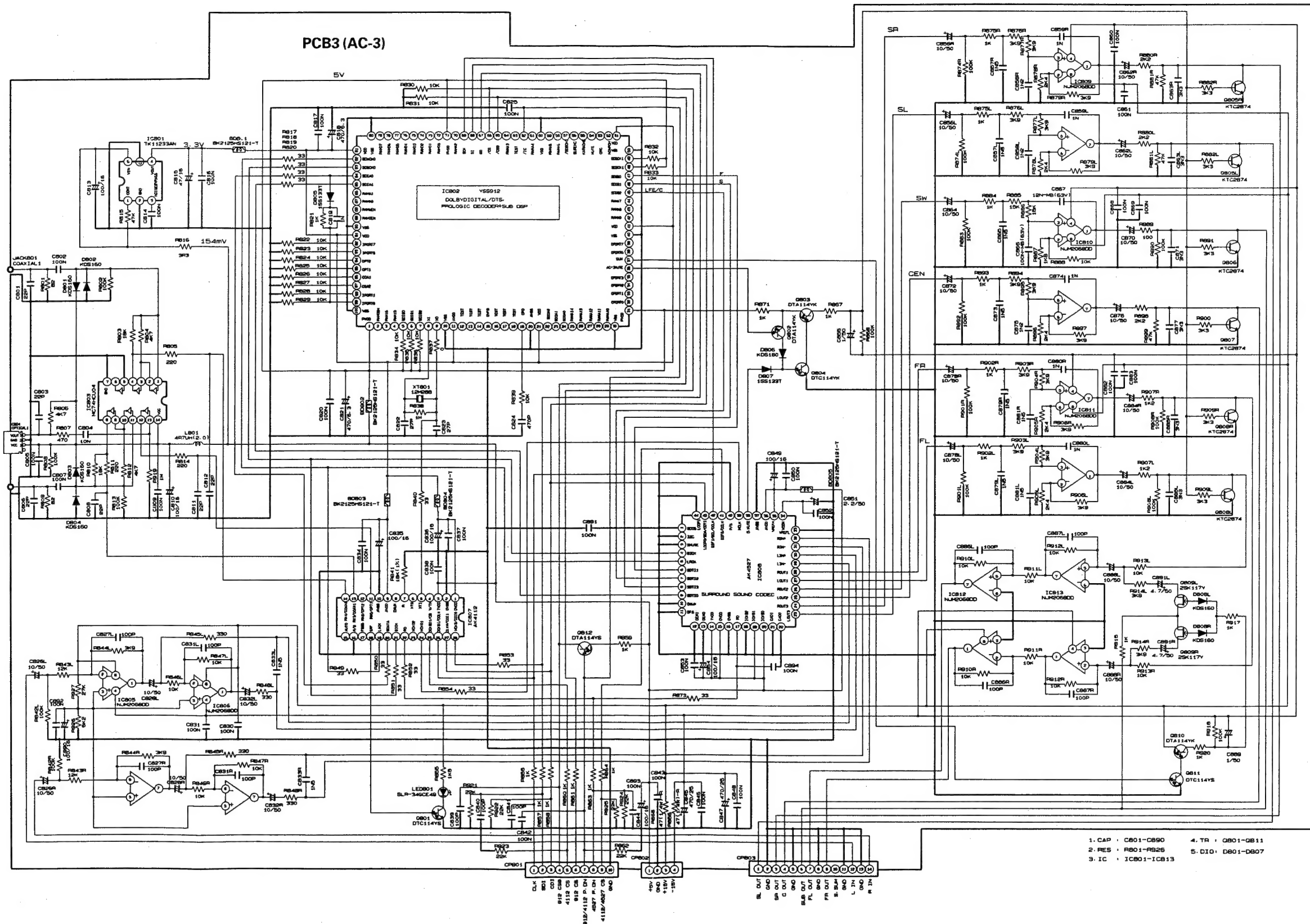


**Model No. : RD-6106/G/RDS**



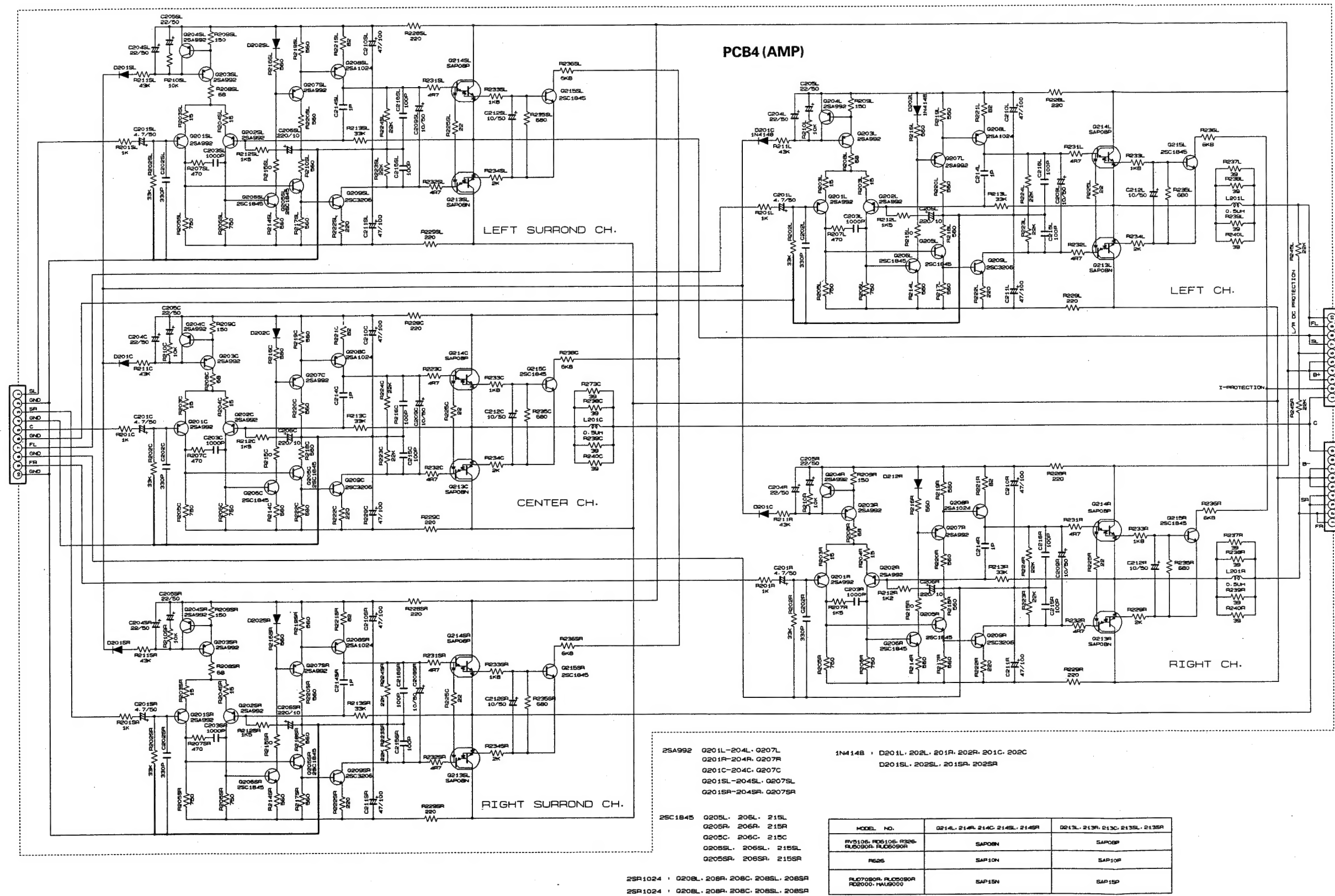
# SCHEMATIC DIAGRAM (IV)

Model No. : RD-6106/G/RDS



# SCHEMATIC DIAGRAM (V)

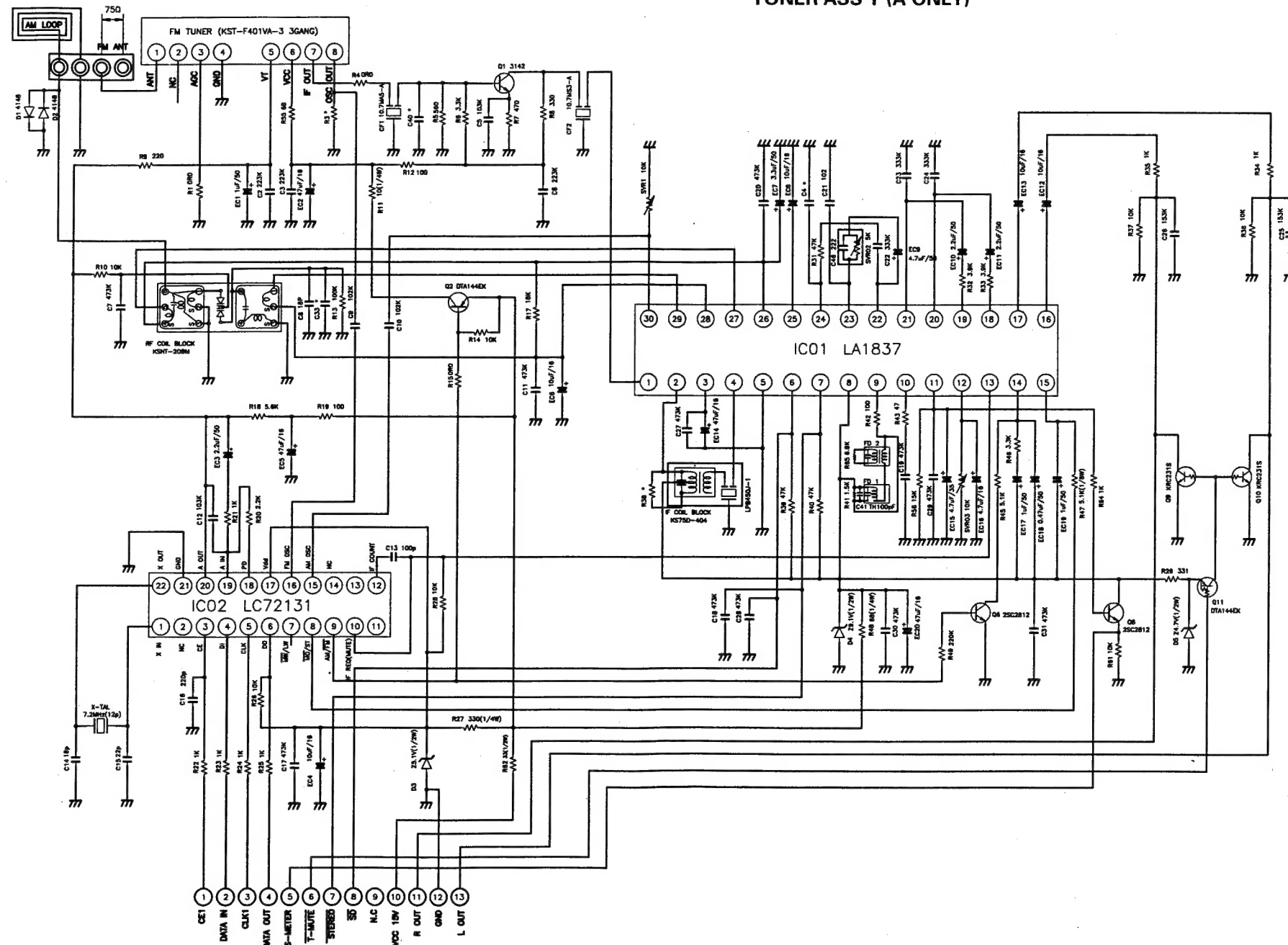
Model No. : RD-6106/G/RDS



# SCHEMATIC DIAGRAM (VI)

Model No. : RD-6106/G/RDS

## TUNER ASS'Y (A ONLY)



# SCHEMATIC DIAGRAM (VII)

Model No. : RD-6106/G/RDS

## TUNER ASS'Y (C/D/RDS ONLY)

